STEREO CASSETTE RECEIVER

KRC-851D

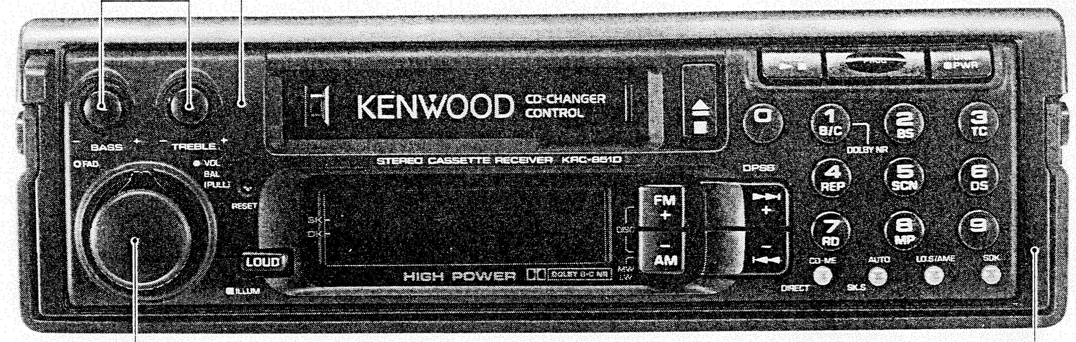
SERVICE MANUAL

KENWOOD

© 1990-2 PRINTED IN JAPAN
B51-6133-00(B)1602

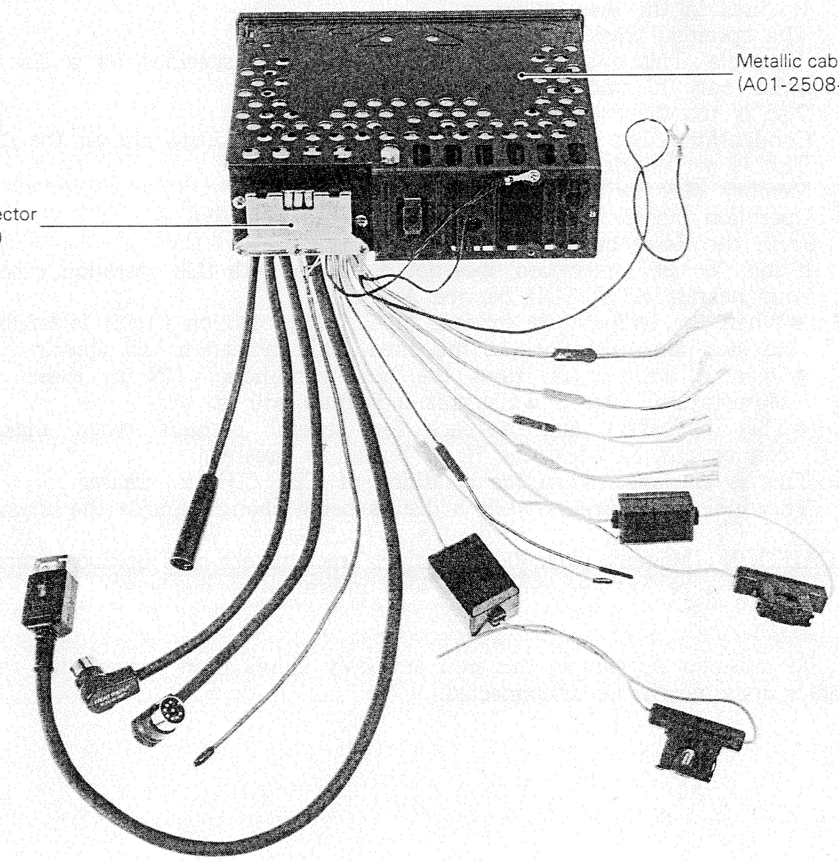
Knob (TONE)
(K23-1004-04)

Panel assy
(A20-7551-03)


KENWOOD
CD-CHANGER CONTROL
STEREO CASSETTE RECEIVER KRC-851D
BASS
TREBLE
PAD
VOL
BAL (PULL)
RESET
LOUD
ILLUM
DPSS
FM +
− AM
HIGH POWER
DOLBY B-C NR
PWR
0
1 B/C
2 BS
3 TC
DOLBY NR
4 REP
5 SCN
6 DS
7 RD
8 MP
9
CD-ME
AUTO
LO.S/AME
SDK
DIRECT
SKS

Knob (VOL)
(K29-5538-03)

Escutcheon assy
(B07-2014-12)



Metallic cabinet
(A01-2508-21)

Detachble connector
(W09-0715-04)

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SPECIFICATIONS .... BACK COVER

TROUBLESHOOTING GUIDE

Other than the previous, this unit displays various error indications to show the following messages.

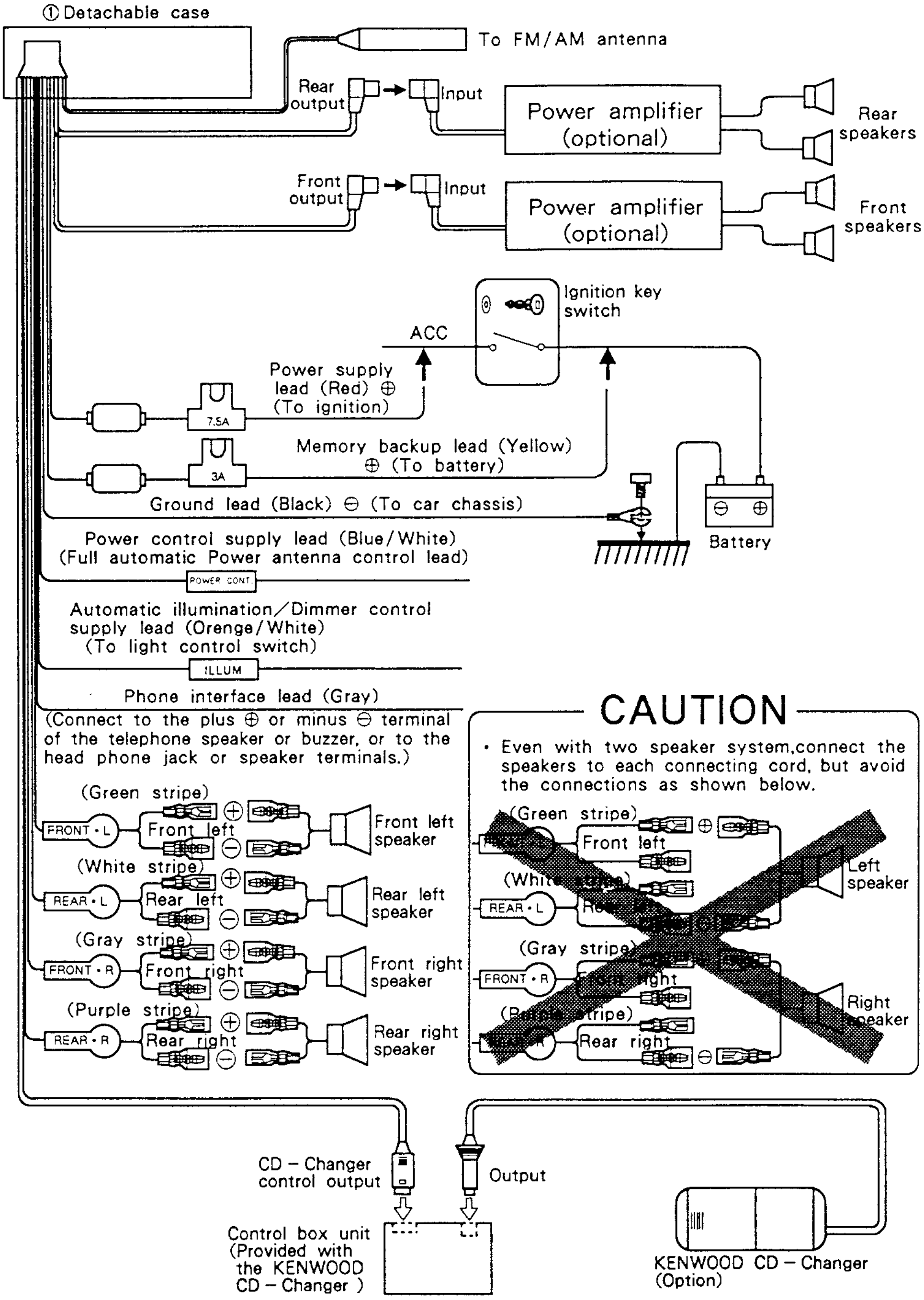
E – 00 : CD – changer control output is not connected.
E – 01 : No disc magazine in the changer, or the magazine is not set completely.
E – 02 : No.discs in the disc magazine.
E – 03 : The specified track is not present on the disc.
(Example : This appears when the 15th track is specified for a disc on which only 10 tracks are contained.)
E – 04 : Disc is too dirty.
Condensation has occurred on the disc, or water drops are on the disc.
Disc is set upside down.
E – 05 : Memory play switch is pressed with no memory.
E – 99 : Operation incorrect due to something being defective.
Press the Reset button on the unit.
If the "E – 99" indication does not disappear with this operation, consult your nearest KENWOOD Service Agent.
E – 0D :
- When the temperature exceeds 60℃, the protection circuit is engaged to stop any operation. At this time , this indication will appear.
- Open a window or tunn the air – conditioner ON to lower the temperature. After a while, this indication will go out.
- This indication also appears for several seconds when making connections, or when the Reset button is pressed.

E – 0E : This is displayed when the condition of "E – 0D" is released.
load : This indication appears while a disc is being changed inside the changer.

CAUTION : Memory play, Random play, Track repeat or Track scan cannot be initiated while the load indication is displayed.

*When no indicator appears in this unit and only illumination appears, the cable connector may nearly be disconnected.

CONNECTIONS


① Detachable case
To FM/AM antenna
Rear output
Input
Power amplifier (optional)
Rear speakers
Front output
Input
Power amplifier (optional)
Front speakers
Ignition key switch
ACC
Power supply lead (Red) ⊕ (To ignition)
7.5A
Memory backup lead (Yellow) ⊕ (To battery)
3A
Ground lead (Black) ⊖ (To car chassis)
Battery
⊖ ⊕
Power control supply lead (Blue/White) (Full automatic Power antenna control lead)
POWER CONT.
Automatic illumination/Dimmer control supply lead (Orenge/White) (To light control switch)
ILLUM
Phone interface lead (Gray)
(Connect to the plus ⊕ or minus ⊖ terminal of the telephone speaker or buzzer, or to the head phone jack or speaker terminals.)
(Green stripe)
FRONT • L
Front left
Front left speaker
(White stripe)
REAR • L
Rear left
Rear left speaker
(Gray stripe)
FRONT • R
Front right
Front right speaker
(Purple stripe)
REAR • R
Rear right
Rear right speaker
⊕
⊖
Left speaker
Right speaker
CD – Changer control output
Output
Control box unit (Provided with the KENWOOD CD – Changer)
KENWOOD CD – Changer (Option)

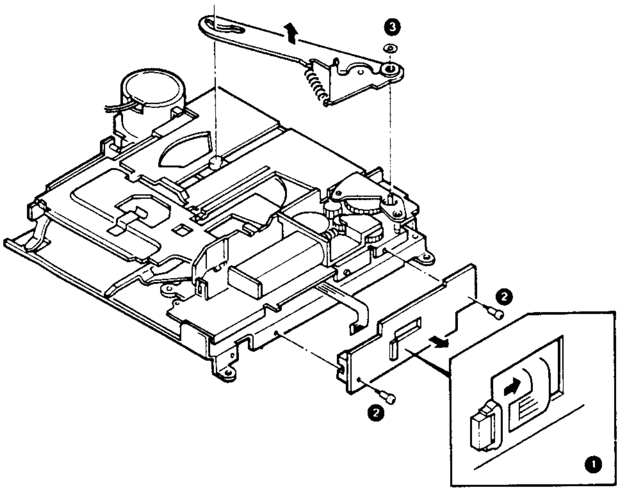
CAUTION

- Even with two speaker system,connect the speakers to each connecting cord, but avoid the connections as shown below.

DISASSEMBLY FOR REPAIR

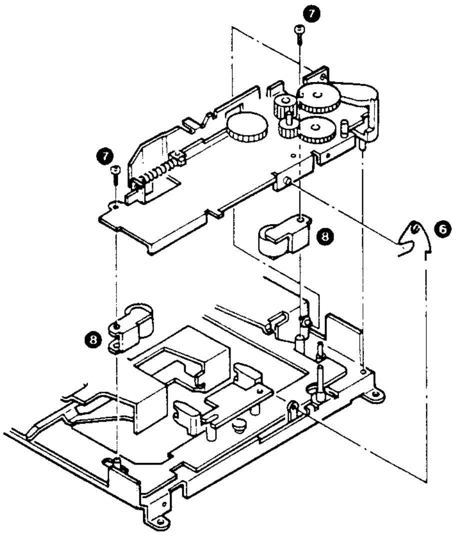
Replacing the motor (1)

1. Disconnect the flexible cord ... ❶
2. Remove the two screws ❷ and disconnect the board.
3. Take out the washer ❸ and detach the loading arm.



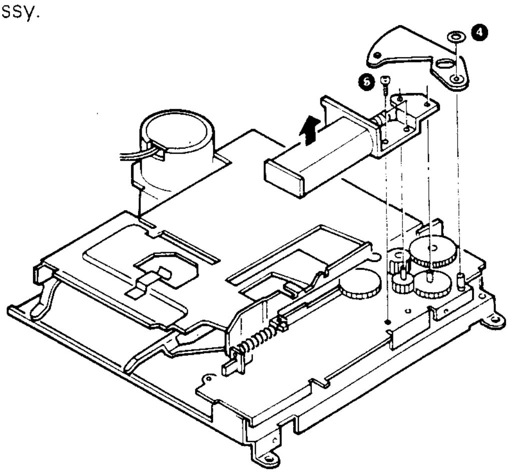
Replacing the pinch roller

6. Detach the spring ... ❻
7. Remove the two screws ❼ and detach the sub chassis.
8. Detach the pinch rollers individually ... ❽



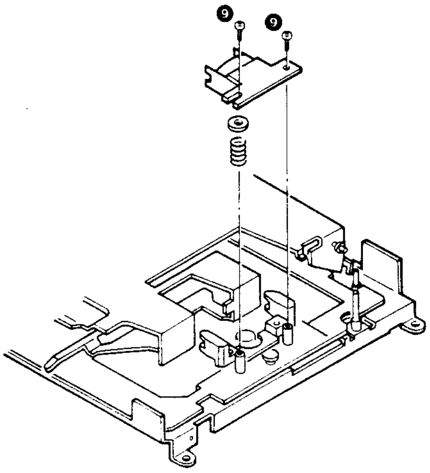
Replacing the sub motor (2)

4. Take out the washer ❹ and detach the door arm plate.
5. Remove the two screws ❺ and detach the motor assy.

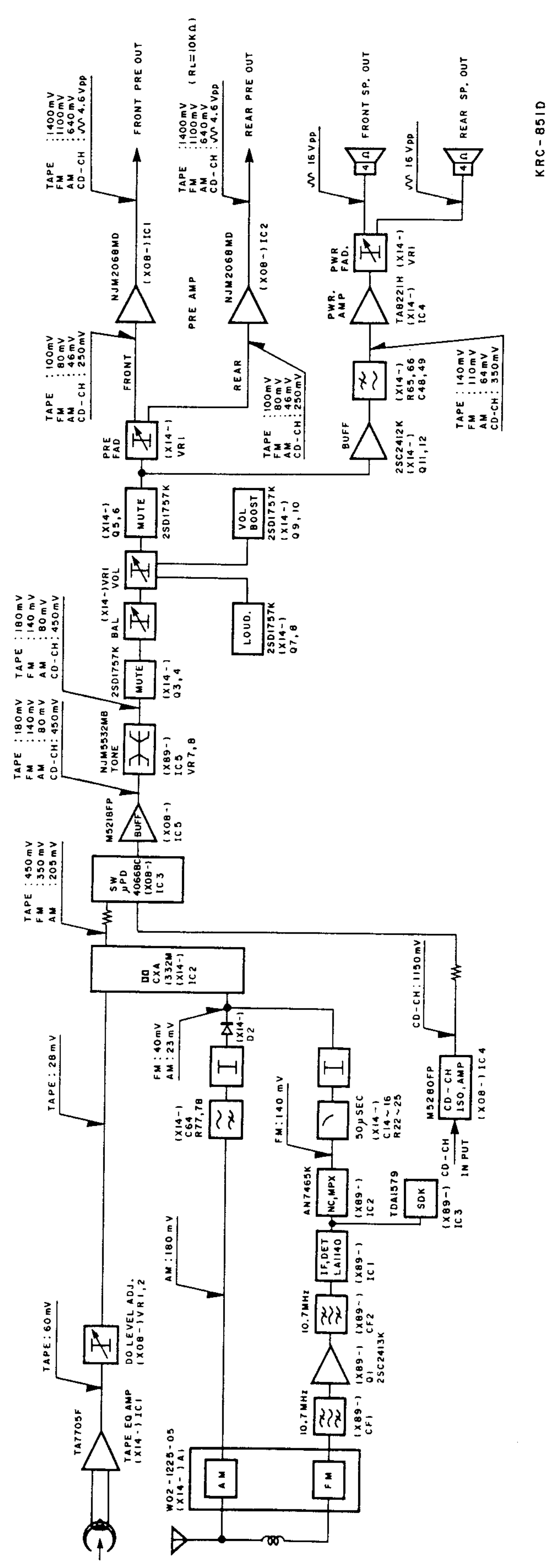


Replacing the Playback head

9. Remove the two screws ❾ and detach the head.



BLOCK LEVEL DIAGRAM


KRC-851D
FRONT PRE OUT
TAPE :1400mV
FM :1100mV
AM :640mV
CD-CH :4.6Vpp
REAR PRE OUT
(RL=10KΩ)
TAPE :1400mV
FM :1100mV
AM :640mV
CD-CH :4.6Vpp
FRONT SP. OUT
REAR SP. OUT
16Vpp
16Vpp
4Ω
4Ω
PWR FAD.
(X14-) VR1
PWR. AMP
TA8221H (X14-) IC4
NJM2068MD (X08-) IC1
NJM2068MD (X08-) IC2
PRE AMP
FRONT
REAR
TAPE :100mV
FM :80mV
AM :46mV
CD-CH :250mV
TAPE :100mV
FM :80mV
AM :46mV
CD-CH :250mV
TAPE :140mV
FM :110mV
AM :64mV
CD-CH :350mV
BUFF
2SC2412K (X14-) Q11,12
(X14-) R65,66 C48,49
PRE FAD
(X14-) VR1
MUTE
(X14-) Q5,6
2SD1757K
VOL BOOST
2SD1757K (X14-) Q9,10
(X14-)VR1 VOL
BAL
LOUD.
2SD1757K (X14-) Q7,8
TAPE :180mV
FM :140mV
AM :80mV
CD-CH :450mV
TAPE :180mV
FM :140mV
AM :80mV
CD-CH :450mV
2SD1757K
MUTE
(X14-) Q3,4
NJM5532MB TONE
(X89-) IC5 VR7,8
M5218FP
BUFF
(X08-) IC5
TAPE :450mV
FM :350mV
AM :205mV
SW μPD 4066BC (X08-) IC3
DD CXA 1332M (X14-) IC2
CD-CH :1150mV
TAPE :28mV
FM :40mV
AM :23mV
(X14-) D2
(X14-) C64 R77,78
FM :140mV
50μSEC (X14-) C14~16 R22~25
M5280FP CD-CH ISO. AMP (X08-) IC4
CD-CH IN PUT
AN7465K
NC,MPX
(X89-) IC2
TDA1579
SDK
(X89-) IC3
AM :180mV
IF,DET LA1140
(X89-) IC1
10.7MHz
(X89-) CF2
(X89-) Q1 2SC2413K
10.7MHz
(X89-) CF1
TAPE :60mV
DO LEVEL ADJ. (X08-) VR1,2
TA7705F
TAPE EQ AMP (X14-) IC1
W02-1226-05 (X14-) A1
AM
FM

KRC-851D

CIRCUIT DESCRIPTION

SYNTHESIZER UNIT (X14-285)

Ref. No.	Use and Function	Operation and Condition
IC 1	TAPE EQ amplifier	
IC 2	DOLBY B/C type	NR. TAPE/RADIO signal selection
IC 3	1/2Vcc buffer	
IC 4	Power amplifier	BTL Output
IC 6	PLL	For Synthesizer Tuning
IC 7	CD-CH interface	Data Buffer
IC 8,9	Voltage detection	5V for IC12
IC 10	T.ADV	Between-tunes Detection
IC 11	Mecha. sub moter driver	
IC 12	Microprocessor	Key input,PLL,LCD control
IC 14	AVR	Vcc for audio,tuner
IC 15	ACC detection	For muting
Q1,2	EQ mute	
Q3-6	Audio mute	
Q7,8	LOUDNESS SW	
Q9,10	VOL.boost SW	
Q11,12	Buffer	Power amplifier input
Q13	Lo/Dx SW	For AM
Q14	LPF	For PLL
Q15,16	TUNER +B SW	Q15:FM Q16:AM
Q17	AM BS driver	
Q18	AM AGC cut SW	For AM
Q19	SK lamp inhibit SW	
Q20	ST IND. driver	
Q21	FM MUTE inverter	SEEK STOP signal
Q22,23	SD signal inverter	SEEK STOP signal
Q24	VCC SW for PLL LPF	
Q25-28	P-CONT.	
Q31	DIMMER inverter	
Q32	DK/RST out inverter	
Q33	RST in inverter	
Q34	CD-CH DATA inhibit	
Q35	Q34,36 driver	
Q36	CD-CH CLK inhibit	
Q37	CD-CH CONT buffer	
Q38	CD-CH REQ buffer	
Q39	RESET	
Q40	POWER ON 5V SW	
Q41	POWER ON SW	Active LOW
Q42,43	5.6V AVR	
Q44-46	T-ADV SENS. SW	
Q47,48	AVR for SUB MOTOR	10V(Kick:14v)
Q49	KICK SW	
Q50,51	MANUAL RESET	
Q52,53	SK/VALET,DK SW	Key matrix control
Q54,55	DIMMER SW	

CIRCUIT DESCRIPTION

SYNTHESIZER UNIT (X14-285)

Ref. No.	Use and Function	Operation and Condition
Q56-59	ILLUM SW	Amber/Green
Q60,61	AVR control	
Q62,63	AVR for lamp	
Q64,65	MAIN MOTOR SW	
Q80	ACC SW	POWER ON
Q81	7.5V AVR SW	
Q82	7.5V AVR	
Q83	LOUD SW driver	
Q84	Ripple filter	
Q85	VOL. boost SW driver	
Q86,87	Audio mute driver	
Q88,89	DOLBY NR control	
Q90-92	ACC detection	

PRE AMP UNIT (X08-241)

IC1	FRONT PREAMP	
IC2	REAR PREAMP	
IC3	Analog SW	
IC4	Isolation amp	
IC5-7	Buffer amp	
Q1-2	Signal selection	Q1:TAPE or TUNER ,Q2:CD-CH
Q3	EXT.MUTE SW	

SWITCH UNIT (X25-390)

IC1	LCD driver	

DAUGHTER UNIT (X89-114)

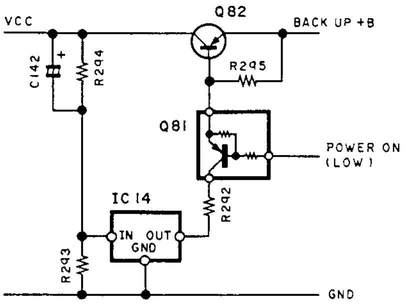
IC1	FM IF amp/ DET.	
IC2	FM MPX / NC	
IC3	SDK	
IC4,5	Buffer amp	
IC6	RESET	
Q1	FM IF amp	
Q2	SD buffer	
Q3	MPX buffer	
Q4	CRSC SW	
Q5	AFC SW	

CIRCUIT DESCRIPTION

7.5 V AVR

IC14: M5237L is the AVR IC exclusive for driver and used in combination with the PNP transistor.

- When the power is turned ON, Q41 turns ON to pull the base of Q81 to turn Q81 ON.
- When Q81 turns ON, IC14 pulls the base of Q82 through R292.
- The collector output voltage of Q82 is divided by R292 and R293, then fed back to IC14.
- IC14 compares the above voltage with the internal reference voltage and controls the base voltage of Q82 so that the returned voltage coincides with the reference voltage.
- C142 makes the rising edge of VCC when the power is turned ON become gentle.



Vref: Internal reference voltage = 1.26 V

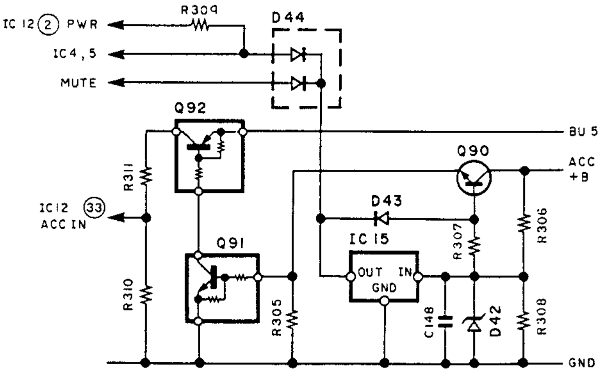
ACC Detection Circuit

IC15: PST529D-MT is used for power voltage surveilance.

- ACC voltage is divided by R306 and R308, and voltage-limited by D42, then applied to terminal I (input) of IC15.
- When the input voltage (terminal I) is dropped below threshold voltage (approx, 8 V, when converting to ACC voltage) of IC15, terminal O (NPN, open collector) turns ON (= low).
- When terminal O if IC5 is inverted to low, the emitter of Q90 goes low and Q91 turns OFF, then Q92 turns OFF.

  Therefore, IC12 pin (33): ACC I which is pulled down by R310 goes low. That is, it is judged as ACC voltage is at low level.
- At the same time, IC4, 5 pin (4) STBY (standby) pin is inverted to low via D44, and turns PWR (power) IC OFF, while the base of Q86 is pulled so that Audio Muting (MUTE) is activated.
- When the ACC voltage raises and the terminal I of IC15 exceeds the threshold voltage, the operation will be reversed and it is judged as the ACC voltage is at high level, while the PWR (power) IC is turned ON and Audio Mute is released.

  (However, since Audio Mute is ORed with IC12 pin (23) MUTE, audio muting will not be released immediately because of the latter MUTE, even if the above operation releases the MUTE.)



CIRCUIT DESCRIPTION

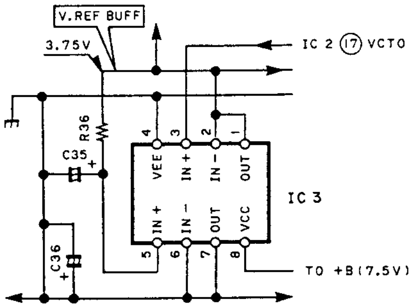
VREF Buffer

IC2: CXA1332M works using the voltage which is the half of VCC (1/2 VCC) applied to pin (17): VCTO as a reference. That is, the 1/2 VCC is used as the signal ground.

In this unit, since all the power supply works with a single power, the above 1/2 VCC (VCTO) is buffered by the voltage follower op-amp IC3 so as to supply the power to each block.

Pin (1) output supplies 1/2 VCC to the following:
- CD-CH isolated amp
- AUX isolated amp
- Analog switch buffer amp
- Tone amp

Pin (2) output supplies 1/2 VCC to the following:
- Pre-amp
- Power amp input buffer
- AC GND of power amp negative feedback
- Main in isolated amp


V.REF BUFF
3.75V
IC 2 ⑰ VCTO
R36
C35
C36
VEE
IN +
IN −
OUT
IN +
IN −
OUT
VCC
1
2
3
4
5
6
7
8
IC 3
TO +B (7.5V)

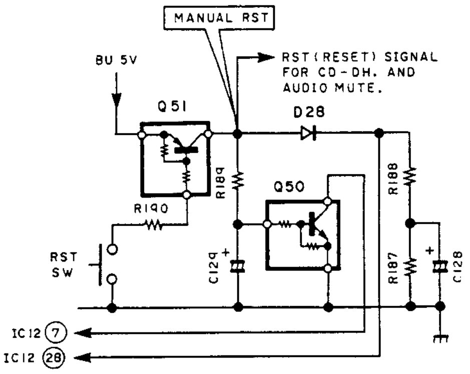
Manual RST (Reset) Circuit

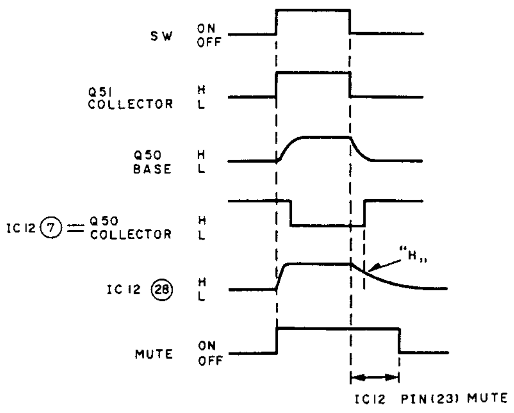
When the voltage at pin (7) is inverted to high, IC12 is initialized if pin (28) is at high level.

When the voltage at pin (7) is inverted to low, IC12 stops its function, and interrupts each power circuit and this causes shock noise.

Therefore, Audio Mute is activated by the collector output of Q51, while IC12 pin (7) is controlled with a slight delay determined by the time constant of R189 and C129.

The Voltage charged in C128 is applied to IC12 pin (28) via D28 and R188, but the reverse current is inhibited by D28 even when the collector of Q51 goes low (Q51 turns OFF), while since discharging is done with a gentle time constant consisting of R187 and C128, the high level is kept for a while.


MANUAL RST
BU 5V
RST (RESET) SIGNAL FOR CD-DH. AND AUDIO MUTE.
Q51
D28
R189
R188
Q50
R190
RST SW
C129
R187
C128
IC12 ⑦
IC12 ㉘



CIRCUIT DESCRIPTION

Description of EXT-MUTE

With the power ON, when the EXT-MUTE signal is applied (the signal is inverted from high to low), the "CALL" indication appears on the 7-segment display then, the unit enters the all-off status.

When any of the TUNER, CD or TAPE key or the MODE key on the remote control is pressed, or when the power of the unit connected to the PACK IN or PREOUT terminals is turned ON, the corresponding function starts playback regardless of whether or not the signal is turned ON.

When the ACC is turned ON while the "CALL" indication appears, the unit enters the Last Tuner mode.

*While 2 seconds after the EXT-MUTE signal is sensed, any key will not be accepted.

- **EXT-MUTE during DK interruption:**
  The EXT-MUTE function will have priority even during DK interruption.
- **EXT-MUTE during playing of the unit connected to PREOUT:**
  If the unit connected to the PREOUT terminals is being played, the P-CON is turned ON while 2 seconds, or until the RESET-IN is turned OFF, to reset the subsequent unit.
  If the RESET-IN is turned ON within 2 seconds after the EXT-MUTE is sensed, the P-CON is turned ON 200 msec later so as not to turn ON the subsequent unit.
  If the RESET-IN is still ON even when 2 seconds after the EXT-MUTE is sensed, the display is changed from "CALL" to "DA" then the previous mode of the subsequent unit will resume.
- **EXT-MUTE during audio adjustment:**
  When the EXT-MUTE is turned ON during adjusting the BASS, TREBLE, BALANCE or FADER, the adjustment mode is changed to volume adjustment mode automatically, then the rotary encoder signals will not be accepted for 2 seconds.
- **EXT-MUTE during inputting the VALET CODE:**
  During registration of the code:
  The entered code will be cleared and the VALET CODE registration mode will be released.
  During inputting the VALET code to release the VALET mode:
  The EXT-MUTE signal will be ignored.

CIRCUIT DESCRIPTION

Operation Description: EXT. MUTE

(1) Connections:

The "MUTE IN1" and "MUTE IN2" are connected to the core wires (red and white) of the 2-conductor shielded cable.

Connect these core wires to the speaker terminals of the telephone set. (Shielding jacket should not be connected to anywhere.)

(2) Circuit Operation:

When there is a ringing on the speaker of the telephone set, the ringing signal is applied to the buffer of IC6 via the filter consisting of R93, R94, C91 — C94, R38 and R39 and the protection diode consisting of D1 and D2.

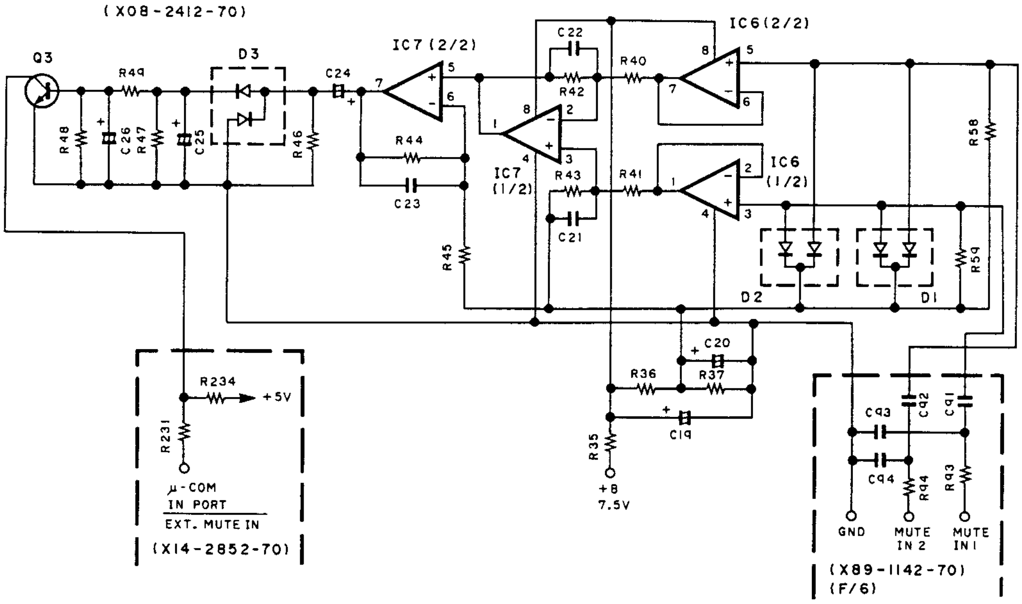
After passing through the buffer, due to the balanced input signal path, the only difference components between IN1 and IN2 will be amplified (in IC7). The DC components are eliminated, and the AC level signal is rectified by the rectifier circuit consisting of D3, C25, R46 and R47 to convert into the DC level. Then, the signal is inverted by Q3 and R234 to be supplied to the port of the microcomputer. R49 and C26 are used to set the time constant so as to delay the response.

(3) Operation on the Unit:

When the microcomputer detects the EXT-MUTE signal, the unit enters the all-off status while "CALL" appears in the display.

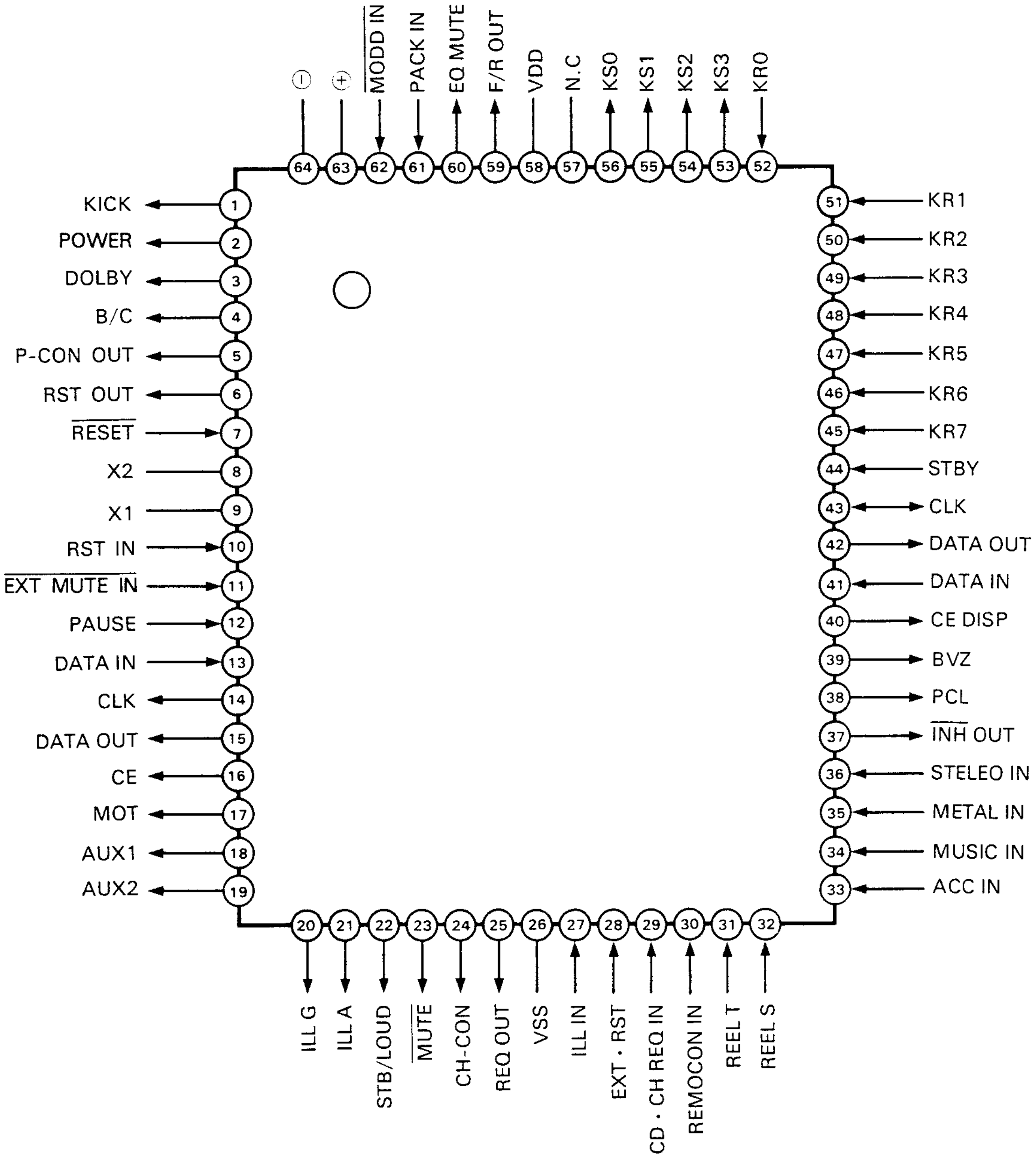
To restore from the "CALL" status, press the PLAY key of the source connected.

Tuner	TUNER/PWR key
Tape	PLAY/PROG key
CD, CH	PLAY/PAUSE key


(X08-2412-70)
Q3
R49
D3
C24
IC7 (2/2)
C22
R40
IC6 (2/2)
R42
R48
C26
R47
C25
R46
R44
C23
IC7 (1/2)
R43
C21
R41
IC6 (1/2)
R58
R59
R45
D2
D1
C20
R36
R37
C19
R35
+B 7.5V
R234
+5V
R231
μ-COM IN PORT
EXT. MUTE IN
(X14-2852-70)
C93
C92
C91
C94
R94
R93
GND
MUTE IN 2
MUTE IN 1
(X89-1142-70) (F/6)

CIRCUIT DESCRIPTION

IC12: 75116GF-616-3BE Microprocessor IC


⊖
⊕
MODD IN
PACK IN
EQ MUTE
F/R OUT
VDD
N.C
KS0
KS1
KS2
KS3
KR0
64
63
62
61
60
59
58
57
56
55
54
53
52
KICK
POWER
DOLBY
B/C
P-CON OUT
RST OUT
RESET
X2
X1
RST IN
EXT MUTE IN
PAUSE
DATA IN
CLK
DATA OUT
CE
MOT
AUX1
AUX2
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
51
50
49
48
47
46
45
44
43
42
41
40
39
38
37
36
35
34
33
KR1
KR2
KR3
KR4
KR5
KR6
KR7
STBY
CLK
DATA OUT
DATA IN
CE DISP
BVZ
PCL
INH OUT
STELEO IN
METAL IN
MUSIC IN
ACC IN
20
21
22
23
24
25
26
27
28
29
30
31
32
ILL G
ILL A
STB/LOUD
MUTE
CH-CON
REQ OUT
VSS
ILL IN
EXT・RST
CD・CH REQ IN
REMOCON IN
REEL T
REEL S

CIRCUIT DESCRIPTION

Pin No.	Port	Assignment	I/O	Function
1	P41	KICK	O	"L" output when sub-motor of mechanism needs to be rotated strongly. "H" output for normal rotation of sub-motor.
2	P40	POWER	O	"H" output during power ON. "H" output when reading the initial setting.
3	P53	DOLBY	O	DOLBY IC NR control output. "H" output for DOLBY B or C.
4	P52	B/C	O	DOLBY IC NR control output. "H" output for DOLBY C.
5	P51	P-CON OUT	O	Output for P-CON. "H" output when making the P-CON output "H".
6	P50	DK OUT/ RST OUT	O	For destination E: VOL boost or output DIN cable DK output. Active "H"→boost →DK line→"L" For destination J: AUX IN RST OUT output. Active "H"→RST→"L"
7	RESET	RST	I	Reset input port, Active "L". Initialize or standby mode cancel input.
8	X2			
9	X1			X-tal OSC.
10	P63	RST IN	I	Mutual operation input. "H" input when RST is "L" in output DIN cable.
11	P62	EXT MUTE IN/ AUX P-CON IN	I	For destination E or K: EXT. MUTE input, Active "L". For destination J: AUX IN P-CON input, Active "L".
12	P61	PAUSE	I	Mechanism pause mode (standby mode) input pin. At "H", the mode is judged to be the pause mode.
13	P60	DATA IN	I	Input pin of data from PLL.
14	P73	CLK	O (I)	1) PLL/E-VOL serial data control CLK output. 2) Input pin for initial setting.
15	P72	DO	O (I)	1) PLL/E-VOL serial data control DATA output. 2) Input pin for initial setting.
16	P71	CE	O (I)	1) PLL serial data control CE output. 2) Input pin for initial setting.
17	P70	MOT	O	"H" when rotating main motor of mechanism.
18	P83	AUX 1	O	"H" when listening to signal from AUX IN.
19	P82	AUX 2	O	"H" when listening to signal from CD-CH.
20	P81	ILLUM G	O	Illumination green output. "H" output when turning on illumination in green.
21	P80	ILLUM A	O	Illumination amber output. "H" output when turning on illumination in amber (Initially in amber).
22	P93	STB/LOUD	O	1) When electronic VOL initial setting is made... Electronic VOL serial data control strobe signal output. 2) When analog VOL initial setting is made... Loudness ON/OFF output "H"=ON.
23	P92	MUTE	O	"L" output during mute.
24	P91	CH-CON	O	"H" output when operating CD-CH.
25	P90	REQ OUT	O	Output to request communication from master to CD-CH Active "H".
26	Vss			
27	P13	ILLUMI IN	I	Illumination input port. Even in the power OFF state, when "L" is input, the illumination output port corresponding to the memorized color is made "H". (ILLUM G → pin 20) (ILLUM A → pin 21).
28	P12	EXT · RST	I	External reset input, Active "H". Initialization when "H" with RST input.
29	P11	CD · CH REQ IN	I	Input to request communication from CD-CH to master.
30	P10	REMOCON IN	I	Remote control data input port.

CIRCUIT DESCRIPTION

Pin No.	Port	Assignment	I/O	Function
31	PTH03	Reel pulse input (takeup)	I	Reel pulse input (takeup reel side in FWD).
32	PTH02	Reel pulse input (supply)	I	Reel pulse input (supply reel side in FWD).
33	PTH01	ACC IN	I	When "H" is input, ACC "existence" is judged.
34	PTH00	MUSIC IN	I	When "H" is input, tape tune "existence" is judged.
35	T10	METAL IN	I	When "H" is input, LCD's MTL display is lit.
36	T11	STEREO IN	I	When "H" is input, LCD's ST display is lit.
37	P23	INH OUT	O	"H" output when turning on LCD display or "L" output when turning off.
38	P22	Division output	O	For destination Japan, only during ALL OFF mode, a 1/4 or 1/8 division of 4.19 MHz is output.
39	P21	BUZ	O	Buzzer sound output port. For buzzer sound, description is made separately.
40	P20	CE DISP	O	LCD Dr control STB output port.
41	P03	DATA IN	I	Input port of data from CD-CH.
42	P02	DATA OUT	O	LCD driver CD-CH control data output port.
43	P01	CLK	I/O	Clock pulse I/O port. LCD driver/CD-CH communication data clock. Clock input port for CD-CH to master reception.
44	P00	STBY	I	Standby mode detect input (momentary voltage decrease detect input), Active "L". After interrupt takes place, when the port is "L", the standby mode is engaged, while when "H", the standby mode is canceled.
45	P123	KR7	I	Key return signal input. Active "L".
46	P122	KR6	I	
47	P121	KR5	I	
48	P120	KR4	I	
49	P133	KR3	I	
50	P132	KR2	I	
51	P131	KR1	I	
52	P130	KR0	I	
53	P143	KS3	O	Key source signal output. Active "L".
54	P142	KS2	O	
55	P141	KS1	O	
56	P140	KS0	O	
57	N.C			Connected to VDD.
58	V_{DD}			
59	P33	$\overline{F}$/R OUT		Tape equalizer amplifier FWD/REV select output. "L": FWD, "H": REV.
60	P32	EQ MUTE	O	Tape equalizer mute output. When sound from tape should not be emitted ... (during FF/REW, direction, loading, eject, etc.) "H" output during TAPE.
61	P31	PACK IN	I	Tape pack-in signal input. Active "H" (pack-in at "H").
62	P30	$\overline{\text{MODE}}$ IN	I	Pin to input mechanism mode, to which mode detect photointerruptor output is connected.
63	P43	SUB-MOTOR ⊕	O	"H" output for normal rotating of mechanism sub-motor ("H" during brake).
64	P42	SUB-MOTOR ⊖	O	"H" output for reverse rotating of mechanism sub-motor ("H" during brake).

CIRCUIT DESCRIPTION

Key Matrix

	KS 0	KS 1	KS 2	KS 3	
KR 0	VOL DOWN (E-VOL) (for encoder)			R SK (D)	Alternate keys
KR 1	VOL: UP (E-VOL) (for encoder)			R DK (D)	
KR 2	AUDIO SELECT (E-VOL) VOL, BAS, TRE BAL, FAD	LOUD (pressed slight) ILLUM (pressed deep)	R AUTO (with rear SDK ON)⤵ SK SEEK UP	R LOCAL (pressed slight) R AUTO MEMORY (pressed deep) (with rear SDK ON)⤵ DISPLAY CHANGE	
KR 3	R 1 T NR (OFF ↗ ↘ C ← B)	R 2 T B. SKIP	R 3 T T-CALL	R 4 T REPEAT C REPEAT	Momentary keys
KR 4	R 5 T INDEX SCAN C TRACK SCAN	R 6 C DISC SCAN	R 7 C RANDOM	R 8 C M. PLAY	
KR 5	R 9	R 0	R DIRECT C (pressed slight) C (pressed deep)	R TUNER ON/OFF (pressed slight) PWR OFF (pressed deep)	
KR 6	R AM C DISC SEARCH DOWN	R FM C DISC SEARCH UP	SDK — (D) P-SCAN — (L) VALET — (K) CLOCK — (J)	C PLAY/PAUSE P-SCAN (K (C) unprovided) SA (D, L, J (C) unprovided)	
KR 7	R DOWN TUNE T NORM. REW (pressed deep) DPSS. REW (pressed slight) C TRACK SEARCH DOWN	R UP TUNE T NORM. FF (pressed deep) DPSS. FF (pressed slight) C TRACK SEARCH UP	T STOP/EJECT	T PLAY/PROG	

Notes:

1. As regards a key having a function only for a specific source (exclusive keys) or a key of which the name and function vary with the source (double and triple function keys), is before its name written (R) (RADIO), (T) (TAPE) or (C) (CD-CH) as a source name.
   Otherwise, of a key even without a number written, its name does not vary with the source (single function keys).
2. As regards a key of which the name and function vary according to the destination, is after its name written (D), (L), (K) or (J) as a destination symbol.
3. Besides, supplementary explanation is made within (   ).

CIRCUIT DESCRIPTION

Key Name	Function
● VOL DWN ● VOL UP	● Electronic VOL volume, bass, treble, balance or fade control keys, which are subject to turning ON/OFF by rotary encoder (phase output).
● AUDIO SELECT	● Electronic VOL control mode select key, which performs a mode selection in the order of volume, bass, treble, balance, then fade. Note: For electronic VOL operation speed and timing, refer to a separate section.
SK	● SK (=BK) signal existence/nonexistence input key (alternate key), which is effective only when destination D is selected (with SDK ON). When the SK (=BK) signal exists, this key is subject to turning ON.
DK	● DK signal existence/nonexistence input key (alternate key), which is effective only when destination D is selected. When the DK signal exists, this key is subject to turning ON.
● LOUD ILLUM	● When pressed slight, this key serves as the loudness ON/OFF key (initially loudness ON). ● When pressed deep, this key serves as the illumination color selector (initially in amber).
● AUTO	● Tuner AUTO ON/OFF key (initially ON) ● With rear SDK ON, this key serves as the SK SEEK (UP) key.
● LO AME	● In the TUNER mode, when pressed slight, this key serves as the LO/DX selector. When pressed deep, auto memory is started. For auto memory operation, refer to a separate section. ● With rear SDK ON, this key serves as the display content selector.
1	In TUNER mode (common to 1 to 0): ● When pressed slight, this key acts to call preset channel 1. ● When pressed deep, this key acts to write to channel 1 the station frequency being now received. ● For direct access, this key serves as a numeric value input key. For direct access, refer to a separate section. In TAPE mode: This key performs a DOLBY NR mode selection in a order as follows: $\begin{tikzcd} \text{Initially OFF} \arrow[r, "\text{KEY IN}"] & B \arrow[r, "\text{KEY IN}"] & C \arrow[ll, bend left, "\text{KEY IN}"] \end{tikzcd}$ (The NR setting is memorized unless initialized.) In CD-CH mode: Not effective
2	In TAPE mode: This key serves as the blank skip SKIP ON/OFF key (initially OFF). In CD-CH mode: Not effective
3	In TAPE mode: T-CALL ON/OFF key In CD-CH: Not effective
4	In TAPE or CD-CH mode: One-tune repeat ON/OFF key (initially OFF) * The ON/OFF state should be memorized independently between these two modes.
5	In TAPE mode: Index scan ON/OFF key (initially OFF) In CD-CH mode: Track scan ON/OFF key (initially OFF) * The ON/OFF state should be memorized in either mode.
6	In TAPE mode: Not effective In CD-CH mode: Disc scan ON/OFF key (initially OFF)
7	In TAPE mode: Not effective In CD-CH mode: Random play ON/OFF key (intially OFF)
8	In TAPE mode: Not effective In CD-CH mode: Memory play ON/OFF key For memory play, refer to a separate section.
9	Tuner memory key
0	Tuner memory key

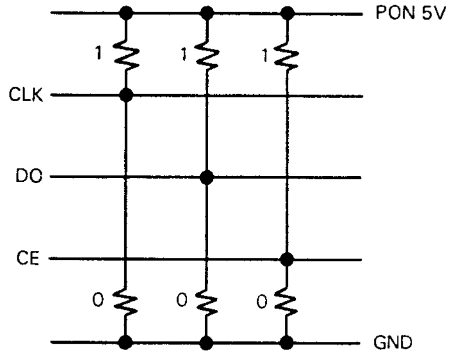
CIRCUIT DESCRIPTION

Key Name	Function
DIRECT	In TUNER mode: Direct access ON/OFF key Direct access function bases on the standard specification. In CD-CH mode: ● When pressed slight, the direct track/disc access numeral keys input standby mode is engaged. ● When pressed deep, the memory mode is engaged. (In the memory mode, when this key is pressed slight, the memory is firmly set and the next tune setting is waited for. For memory set function, refer to a separate section.) In TAPE mode: Not effective
TUNER	● When pressed slight, this key serves as the tuner ON/OFF key or, in operation on another mode, the tuner call key. When the TUNER key is pressed in operation on another mode when the tuner is ON, the TUNER mode should be to by TUNER ON, not performing TUNER OFF. ● When pressed deep, this key serves to turn the power OFF.
AM	In TUNER mode: AM band select key ● For J, K or Middle and Near East spec., this key works to call the MW band only. ● For E spec., this key serves as the MW/LW band select key. When the FM band is engaged by use of the FM key from the LW band and then the AM key is pressed again, the LW band should be returned to. (Same to MW) In CD-CH mode: Disc search (DOWN) key ● For clock adjustment mode Hour's digit adjustment key Clock adjustment bases on the standard specification.
FM	In TUNER mode: FM band select key, which acts to call FM1 or FM2. When the AM band is engaged by use of the AM key from the FM2 band and the FM key is pressed again, the FM2 band should be returned to. (Same to FM1) In CD-CH mode: Disc search (UP) key For clock adjustment mode Minute's digit adjustment key Clock adjustment bases on the standard specification.
SDK	● For destination J, this key serves as the clock key, which selects between clock display priority mode and clock display invalid mode. Clock function bases on the standard specification. ● For destination K, this key serves as the valet key. For its specification, refer to the plan specification. * The key relative to the function in which a 4-bit code prevents the turning ON of the power by another hand. ● For destination E SDK ON/OFF key SDK function bases on the standard specification. ● For destination L P-SCAN key
CD PLAY/PAUSE	● CD charger PLAY/PAUSE key For CD charger function, refer to a separate section. ● When no use of CD-CH control is specified, this key serves as the SA key for destination D, L or J or as the P-SCAN key for destination K.
DOWN	In TUNER mode: DOWN-direction tuning key In TAPE mode: REW key (DPSS when pressed slight two touches and simple REW when pressed deep) In CD-CH mode: Track search DOWN key
UP	In TUNER mode: UP-direction tuning key In TAPE mode: FF key (DPSS when pressed slight two touches and simple FF when pressed deep) In CD-CH mode: Track search UP
	For cassette tape: STOP (=PAUSE) or EJECT key Key input during play: PAUSE Key input during pause: EJECT
PLAY/PROG	In TAPE mode: PLAY/PROG key Tape play select key

CIRCUIT DESCRIPTION

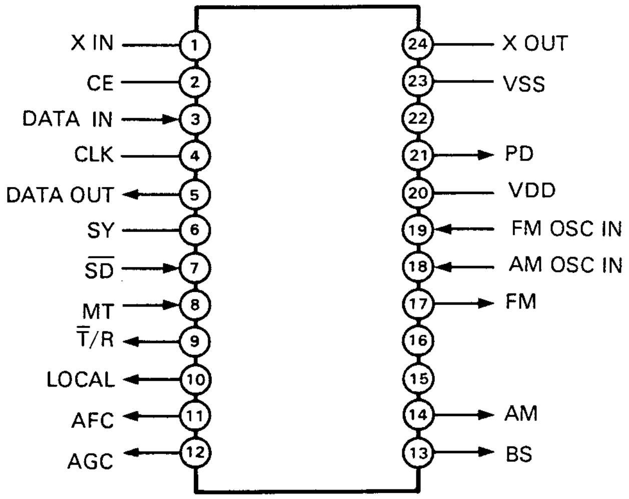
INITIALIZE

PIN NO.			MODEL
43 CLK	42 DATA	40 CE	
0	0	0	KRC-919 (J)
0	0	1	KRC-818 (J)
0	1	0	KRC-810 (K)
0	1	1	KRC-910 (K)
1	0	1	KRC-851D (D)


PON 5V
1
1
1
CLK
DO
CE
0
0
0
GND

CIRCUIT DESCRIPTION

IC6: LC7218 External PLL IC

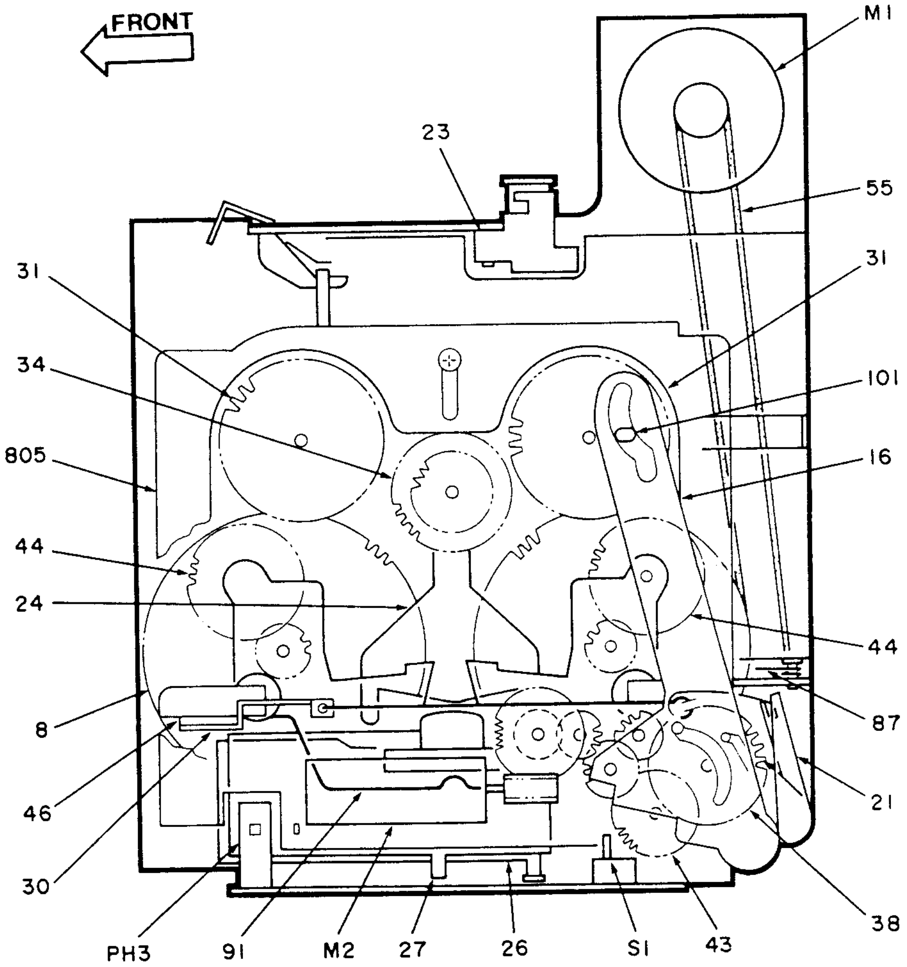

X IN
CE
DATA IN
CLK
DATA OUT
SY
SD
MT
T/R
LOCAL
AFC
AGC
1
2
3
4
5
6
7
8
9
10
11
12
24
23
22
21
20
19
18
17
16
15
14
13
X OUT
VSS
PD
VDD
FM OSC IN
AM OSC IN
FM
AM
BS

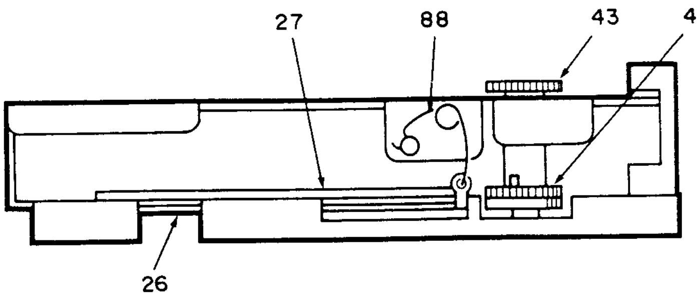
External PLL Port Assignment

LC7218 Port Functions

Pin No.	Port	Assignment	I/O	Function
7	IN0	$\overline{\text{SD}}$	I	Stop level detect port, active "L". Effective for FM, MW and LW.
8	IN1	MT	I	Band mute detect port, active "H". Effective for FM. Note: For MW or LW, SD1 only is detected. For FM, SD1 and SD2 are detected. For timing, refer to the timing chart.
9	$\overline{\text{OUT0}}$	T/R	O	"L" output during TAPE mode and "H" output during TUNER mode. (With power OFF or ACC "L", keep as it stands.)
10	OUT1	LOCAL	O	Local control output. "H" with local ON ("H" only during tuning operation because of local seek operation).
11	OUT2	AFC	O	FM AFC time-constant select output. Active "L" during tuning operation.
12	$\overline{\text{OUT3}}$	AGC	O	AM AGC-CUT output. Active "L" during tuning operation.
13	$\overline{\text{OUT4}}$	BS	O	AM band selector. Effective for Europe band. "L" for MW, "H" for LW and "H" for FM.
14	$\overline{\text{OUT5}}$	AM	O	AM+B, Active "L".
17	$\overline{\text{OUT6}}$	FM	O	FM+B, Active "L".

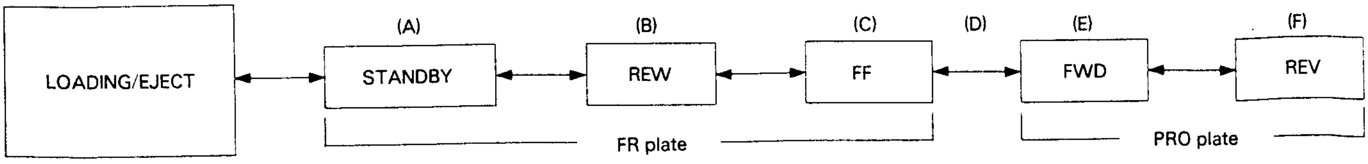
MECHANISM DESCRIPTION


FRONT
M1
23
55
31
101
16
44
87
21
38
31
34
805
44
24
8
46
30
PH3
91
M2
27
26
S1
43


27
88
43
45
26

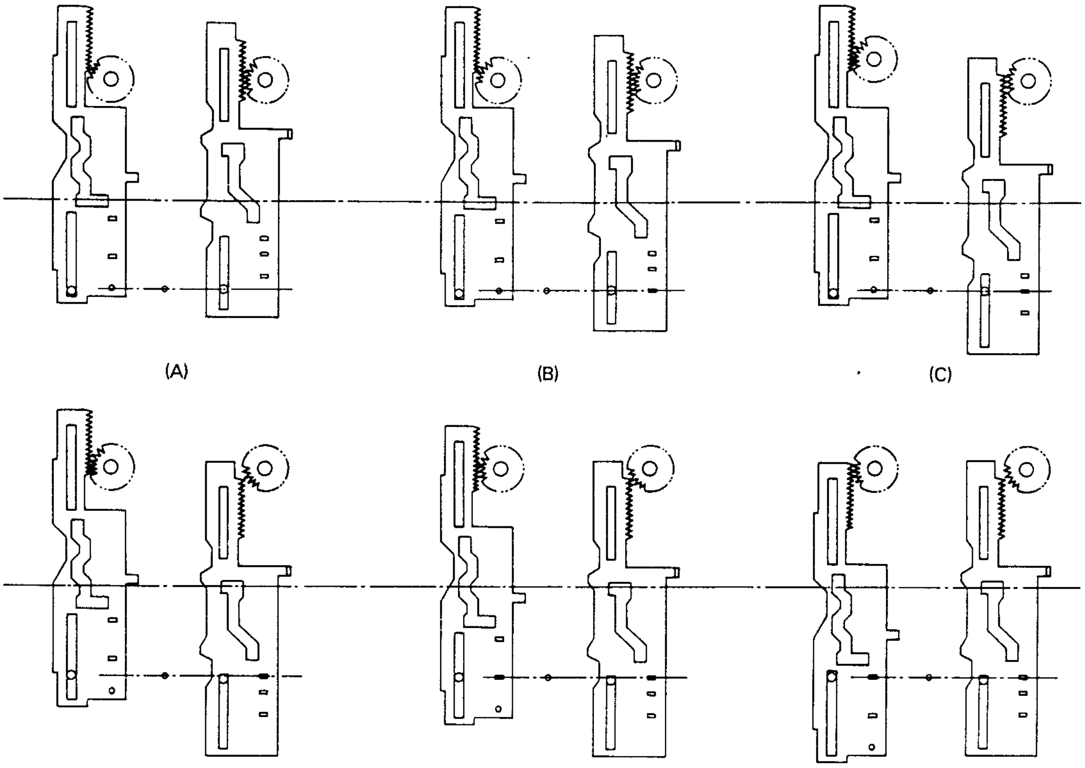
Mechanism operation modes

Each mode undergoes the following sequence:

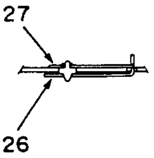

LOADING/EJECT
(A)
STANDBY
(B)
REW
(C)
FF
(D)
(E)
FWD
(F)
REV
FR plate
PRO plate

MECHANISM DESCRIPTION

Each mode is determined by the positions of the FR and PRO plates.


(A) (B) (C)

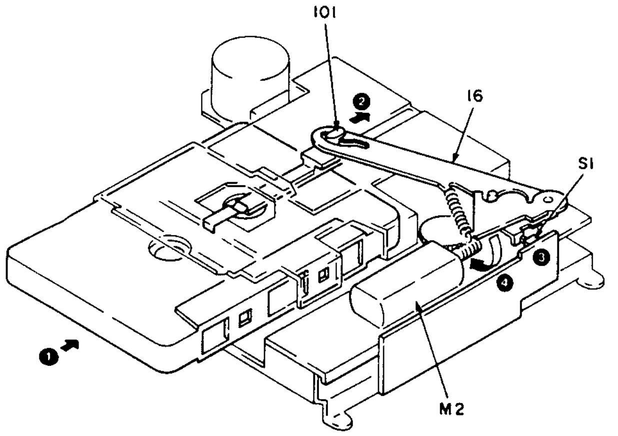
(D) (E) (F)

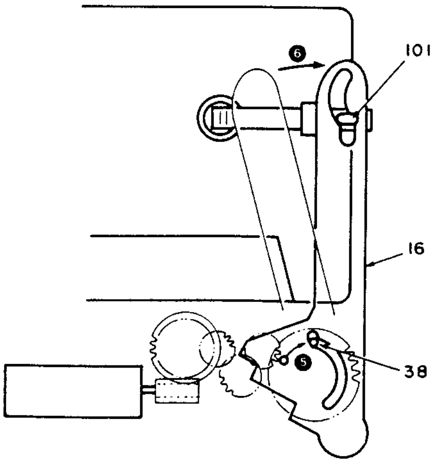


1. Loading

When the cassette tape is pushed in①, the loading arm (16) moves via the pack slider (101)...②. Thus, the pack-in switch (S1) detects this...③. and the sub motor (M2) makes normal rotation...④.

The rotation of the sub motor (M2) causes the load gear (38) to rotate by way of the idle gear...⑤.
The load gear (38) provides the rotation of the loading arm (16) by its pin...⑥, to load in the cassette tape.

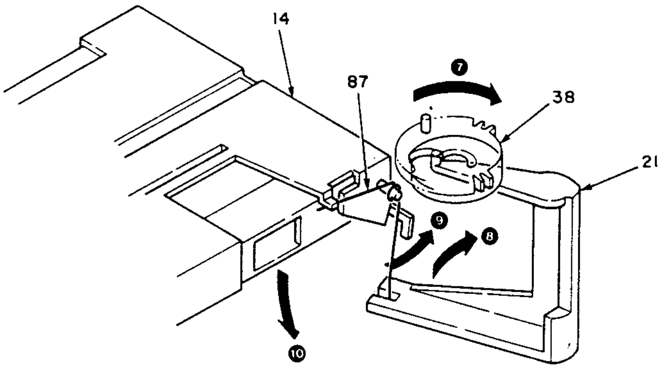




MECHANISM DESCRIPTION

2. PACK DOWN

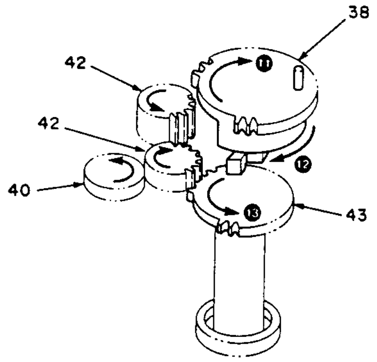
When the load gear (38) further rotates ⑦, the action arm (21) also rotates ⑧ to lower the action plate (14) ... ⑨, by way of the action plate spring (87) ... ⑩.



3. Change from load gear to mode gear

When the load gear (38) further more rotates ⑪ , the boss under it pushes against the boss of the mode gear (43) ... ⑫ , so that the mode gear (43) rotates after the shift of its non-toothed section ... ⑬ .

Thus, the load gear (38) stops rotation on account of its non-toothed section coming.

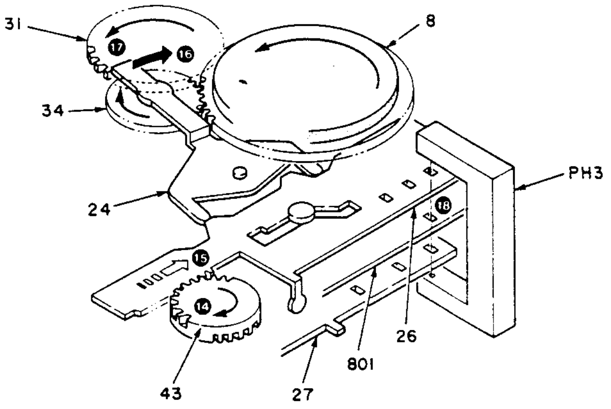


4. REW

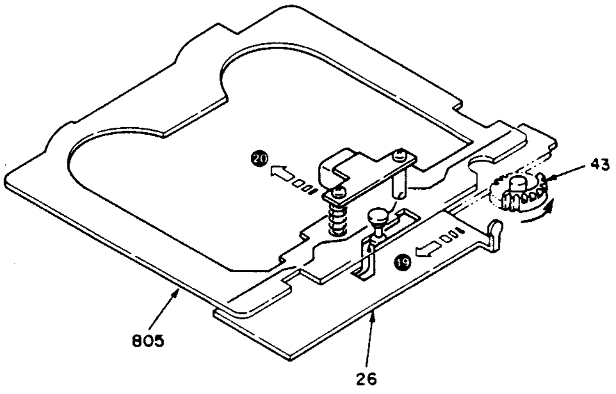
When the mode gear (43) rotates ⑭ , the FR plate (26) under it moves ㉕. The cam of the FR plate (26) works to rotate the FR arm (24) ... ⑯ .

Further, the FR arm (24) moves to transmit the rotation of the flywheel (8) to the reel gear (31) ... ⑰

At this time, a slot (REW hole) of the FR plate (26) is detected by the mode sensor (PH3) ... ⑱ , to stop the rotation of the sub motor.



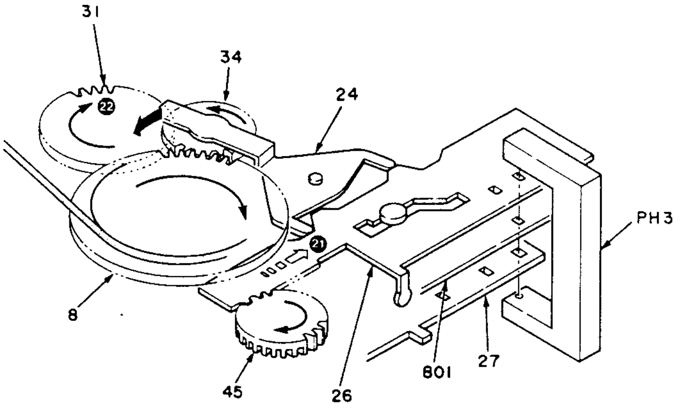
For REW or FF, due to the groove of the FR plate (26) ... ⑲, the head plate (805) advances ⑳ so that the head moves to a position at which T-ADV is feasible.



MECHANISM DESCRIPTION

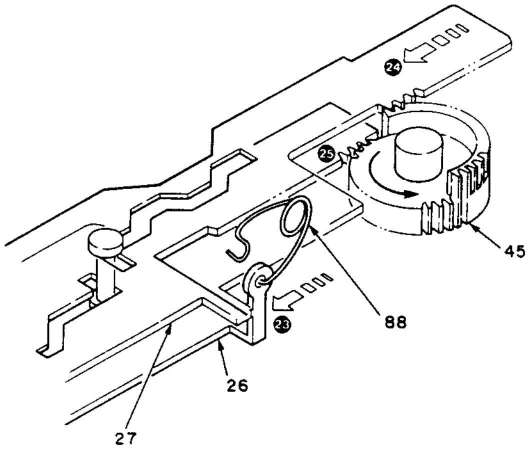
5. FF

When the sub motor further rotates, the cam of the FR plate (26) moves ㉑ so that the FR arm (24) is rotated in the reverse direction... ㉒. Thus, a slot (FF hole) of the FR plate (26) is detected by the mode sensor (PH3) to stop the rotation of the sub motor.



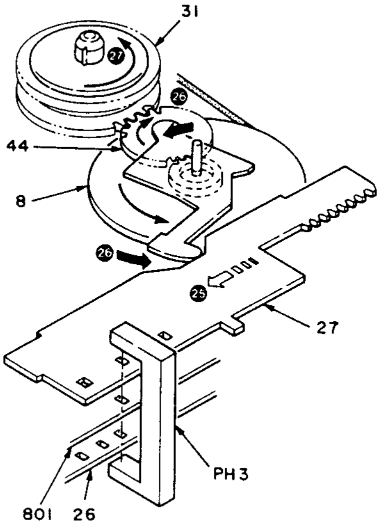
6. Change from FR plate to PRO plate

When the sub motor further more rotates, the knob of the FR plate (26) hits against the knob of the PRO plate (27)... ㉓, so that the PRO plate (27) moves.
Thus, the rack of the PRO plate (27) enters into engagement with the mode gear... ㉔. Then, the rack of the FR plate (26) is disengaged from the mode gear because of its non-toothed section coming... ㉕. The mode plate spring (88) assists in this operation.

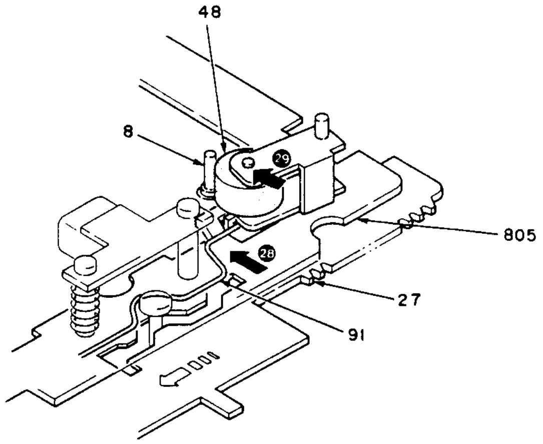


7. FWD PLAY

When the PRO plate (27) moves ㉕, the takeup plate F is rotated by the cam of the PRO plate (27) and the takeup gear (44) engages with the reel assy (31)... ㉖. The rotation of the flywheel (8) is transmitted to the reel assy (31) by way of the takeup gear (44)... ㉗. Thus, a slot (FWD hold) of the PRO plate (27) is detected by the mode sensor (PH3) to stop the rotation of the sub motor.



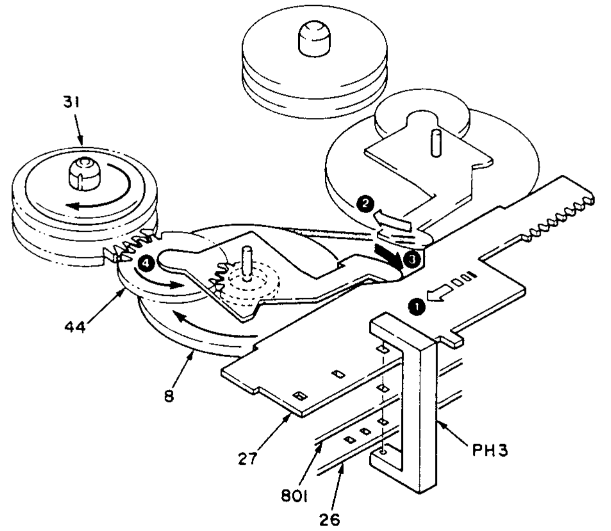
The groove of the PRO plate (27) serves to advance the head plate (805)... ㉘, to move the head and the pinch roller (48) to their FWD PLAY position. The pinch roller (48) is contacted to the capstan (8) by pressure due to the shift of the takeup plate and the force of the pinch roller spring... ㉙.



MECHANISM DESCRIPTION

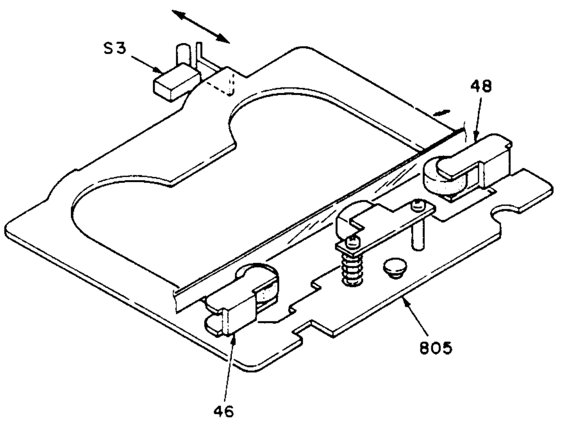
8. REV PLAY

When the PRO plate (27) further moves, the takeup plate F returns by the cam of the PRO plate (27) ... ㉛, and the takeup plate R rotates ㉜.
The rotation of the flywheel is transmitted to the reel assy (31) by way of the takeup gear (44) ... ㉝.
Thus, a slot (REV hole) of the PRO plate (27) is detected by the mode sensor (PH3) to stop the rotation of the sub motor.



9. STANDBY (PAUSE)

From a given mode, when the head plate (805) regresses due to the reverse rotation of the sub motor rotates, when the pause switches (S3) acts ("L" to "H") to stop the rotation of the sub motor, the pause mode is entered.



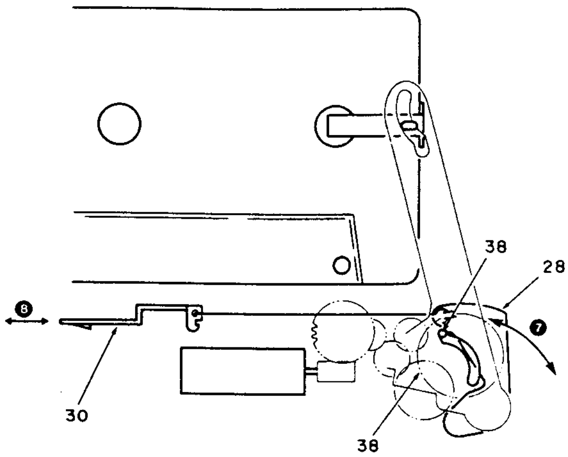
10. EJECT

When the sub motor is reversely rotated, an operation reverse to the loading operation is performed to eject the cassette tape.

MECHANISM DESCRIPTION

11. SHUTTER DOOR

For loading or eject, the door arm (28) is actuated by the pin of the load gear (38). The door arm (28) moves the door lever (30) forwards or backwards to open or close the cassette lid.

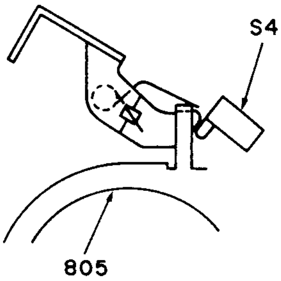


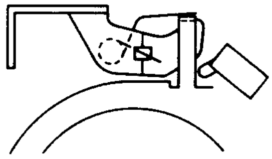
12. AUTO REVERSE

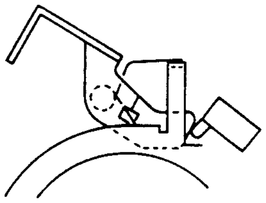
The tape end is detected by the sensor which senses the reel rotation.

13. AUTO METAL

The auto metal switch (S4) detects the high position hole of the cassette tape when the head plate (805) is advancing.







ADJUSTMENT

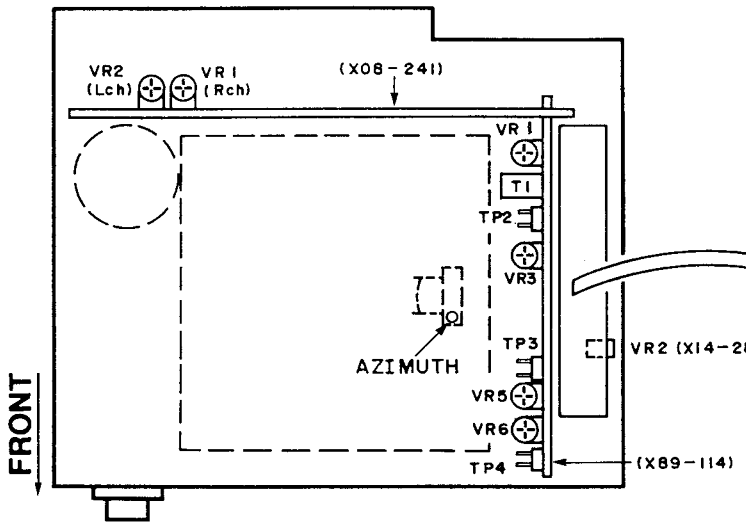
Set the controls and switches as follows.

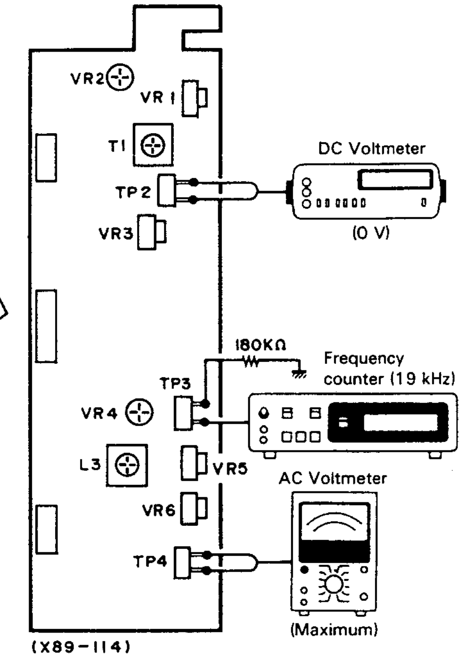
BALANCE :center position LOUD :OFF LOCAL :OFF
FADER :center position T · ADV :OFF AUTO :OFF
BASS :center position METAL :OFF
TREBLE :center position DOLBY NR :OFF

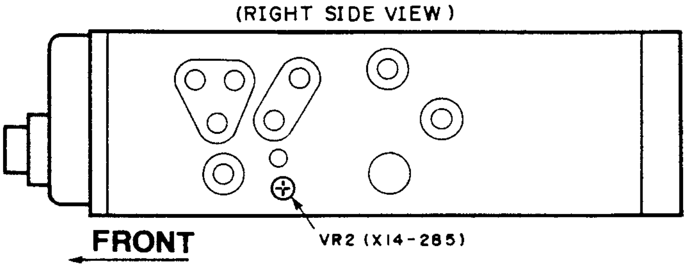
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER(RECEIVER) SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1	DISCRIMINATOR	(A) 98.1MHz 0 dev 60dBμ(ANT input)	Connect a DC Voltmeter to TP2.(X89-114)	FM 98.1MHz	T1 (X89-114)	0V	(a)
2	VCO	(A) 98.1MHz 0 dev 60dBμ(ANT input)	Connect a frequency counter to TP3.	FM 98.1MHz	VR5 (X89-114)	19,000Hz	(b)
3	SEPARATION	(C) 98.1MHz 1kHz,±40kHz dev Pilot:±6kHz dev Selector:L or R 60dBμ(ANT input)	(B)	FM 98.1MHz	VR4 (X89-114)	Adjust it so that the crosstalk from L to R and R to L become minimum.	
4	ANRC	(C) 98.1MHz 1kHz,±40kHz dev Pilot:±6kHz dev Selector:L or R 35dBμ(ANT input)	(B)	FM 98.1MHz	VR2 (X89-114)	Separation 10dB	
5	SEEK STOP LEVEL	(A) 98.1MHz 1kHz,±40kHz dev 20dBμ(ANT input)	–	FM SEEK:ON 98.1MHz	VR1 (X89-114)	STOP	
6	SOFT MUTE LEVEL	(A) 98.1MHz 1kHz,±40kHz dev 60dBμ→No input	(B)	FM 98.1MHz	VR3 (X89-114)	Output Noise level -25dBμ (When not add any signal to ANT terminal)	
SDK SECTION							
<1>	DK LEVEL	(E) 98.1MHz 0 dev SK 5.33% DK 30%,BK 60% 60dBμ(ANT input)	Connect an AC voltmeter to TP4. (X89-114)	FM 98.1MHz SDK:ON	L3 VR6 (X89-114)	Maximum	(c)
AM SECTION							
(1)	STOP LEVEL	(D) 999kHz 400Hz,30% mod 35dBμ(ANT input)	–	AM 999kHz	VR2 (X14-285)	STOP	
CASSETTE DECK SECTION							
[1]	AZIMUTH	MTT-114 10kHz	(B)	TAPE PLAY	Head Azimuth Screw	Adjust the azimuth for each L CH/R CH or FWD/RVS becomes maximum.	(d)
[2]	PLAYBACK LEVEL	MTT-150	Connect an AC voltmeter to TP.(X14-285)	TAPE PLAY	VR2(L) VR1(R) (X08-241)	388mV	(e)

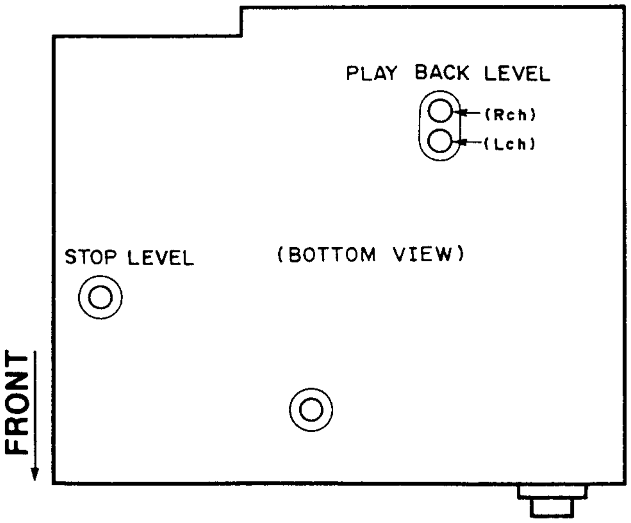
KRC-851(E)

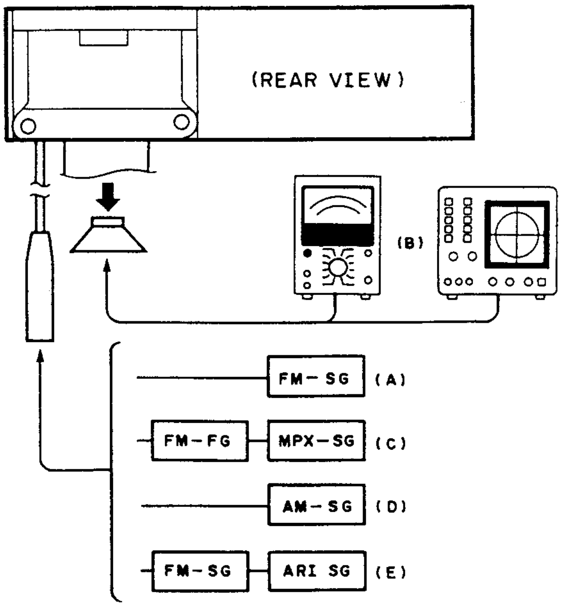
ADJUSTMENT


VR2 (Lch)
VR 1 (Rch)
(X08-241)
VR 1
T1
TP2
VR3
AZIMUTH
TP3
VR5
VR6
TP4
VR2 (X14-285)
(X89-114)
FRONT

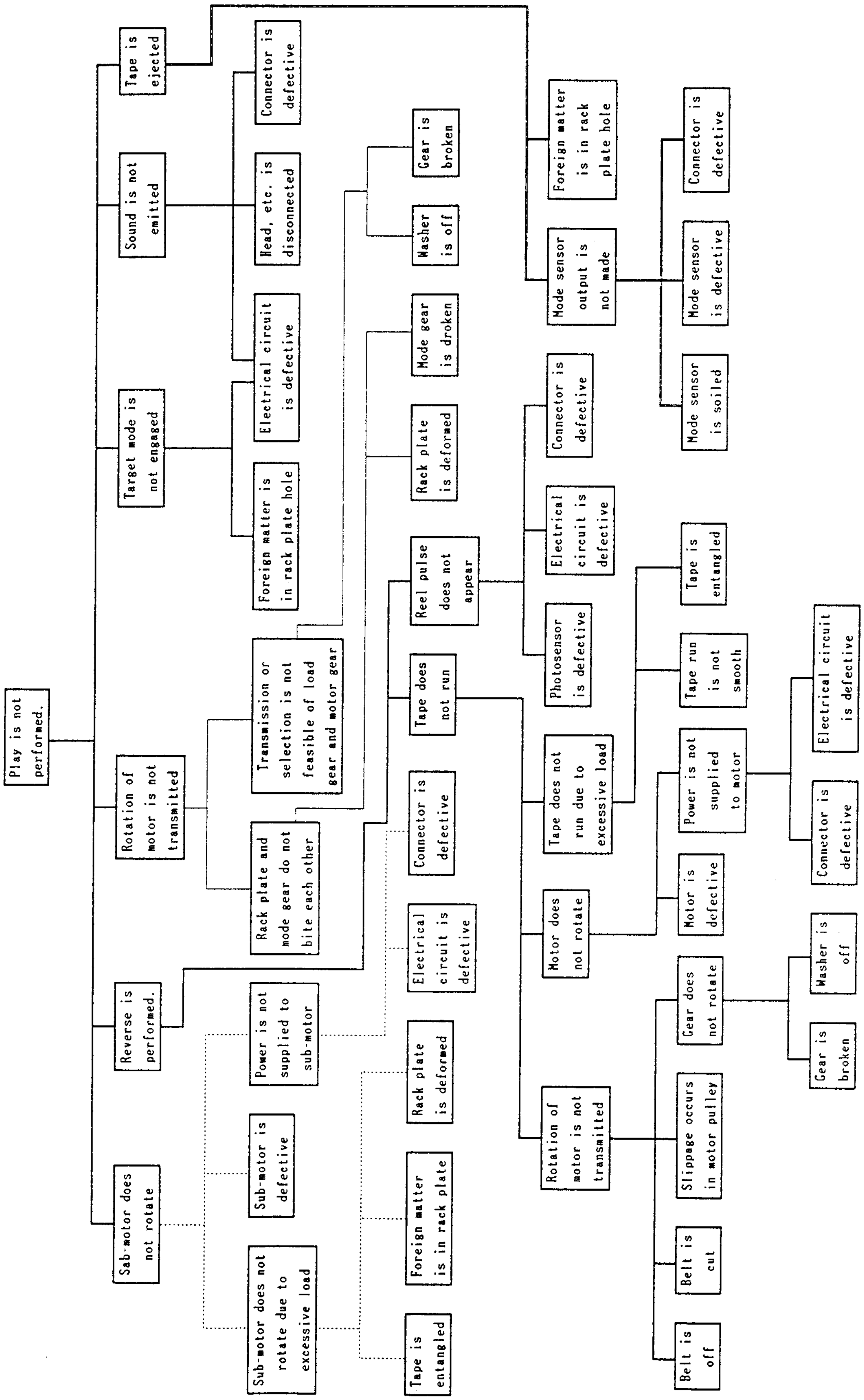

VR2
VR 1
T1
TP2
VR3
DC Voltmeter
(0 V)
180KΩ
Frequency counter (19 kHz)
TP3
VR4
L3
VR5
AC Voltmeter
VR6
TP4
(Maximum)
(X89-114)


(RIGHT SIDE VIEW)
FRONT
VR2 (X14-285)

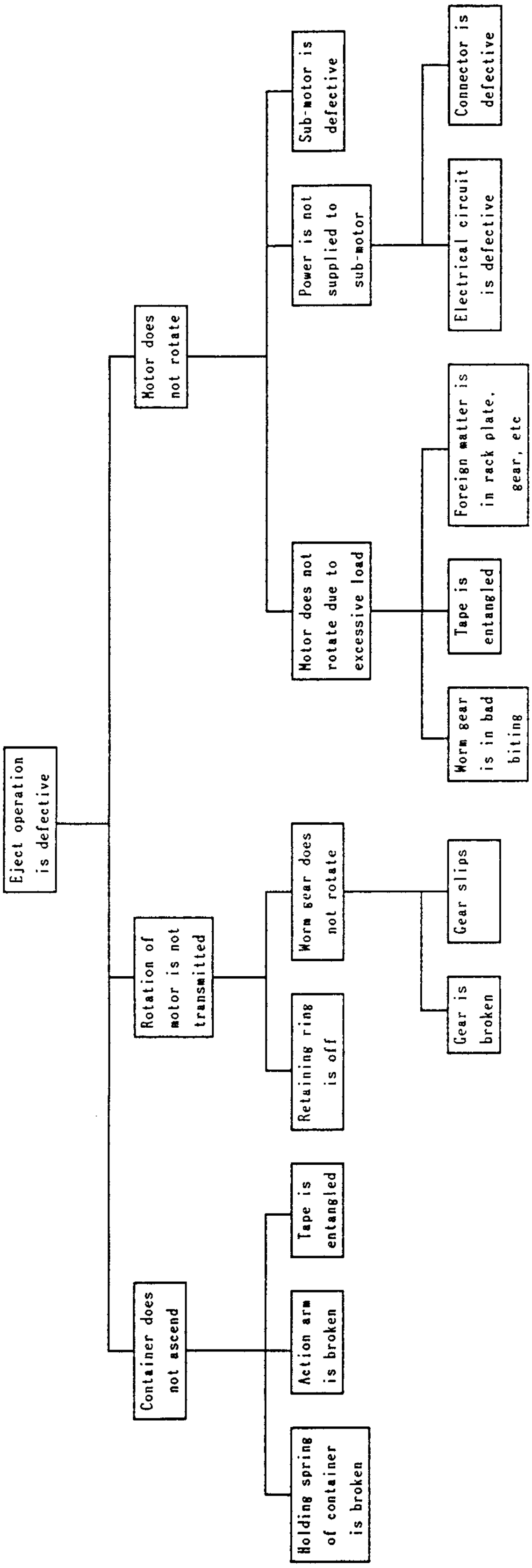

PLAY BACK LEVEL
(Rch)
(Lch)
STOP LEVEL
(BOTTOM VIEW)
FRONT


(REAR VIEW)
(B)
FM-SG
(A)
FM-FG
MPX-SG
(C)
AM-SG
(D)
FM-SG
ARI SG
(E)

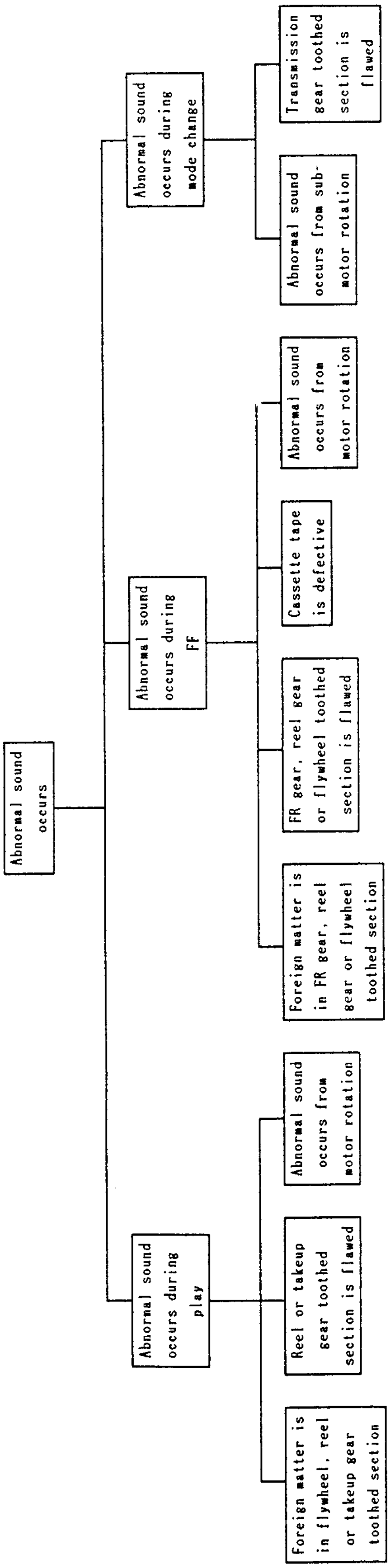
TROUBLE SHOOTING


Play is not performed.
Tape is ejected
Sound is not emitted
Target mode is not engaged
Rotation of motor is not transmitted
Reverse is performed.
Sab-motor does not rotate
Connector is defective
Head, etc. is disconnected
Electrical circuit is defective
Foreign matter is in rack plate hole
Transmission or selection is not feasible of load gear and motor gear
Rack plate and mode gear do not bite each other
Power is not supplied to sub-motor
Sub-motor is defective
Sub-motor does not rotate due to excessive load
Gear is broken
Washer is off
Mode gear is droken
Rack plate is deformed
Reel pulse does not appear
Tape does not run
Connector is defective
Electrical circuit is defective
Rack plate is deformed
Foreign matter is in rack plate
Tape is entangled
Foreign matter is in rack plate hole
Mode sensor output is not made
Connector is defective
Electrical circuit is defective
Photosensor is defective
Tape does not run due to excessive load
Motor does not rotate
Rotation of motor is not transmitted
Connector is defective
Mode sensor is defective
Mode sensor is soiled
Tape is entangled
Tape run is not smooth
Power is not supplied to motor
Motor is defective
Gear does not rotate
Slippage occurs in motor pulley
Belt is cut
Belt is off
Electrical circuit is defective
Connector is defective
Washer is off
Gear is broken

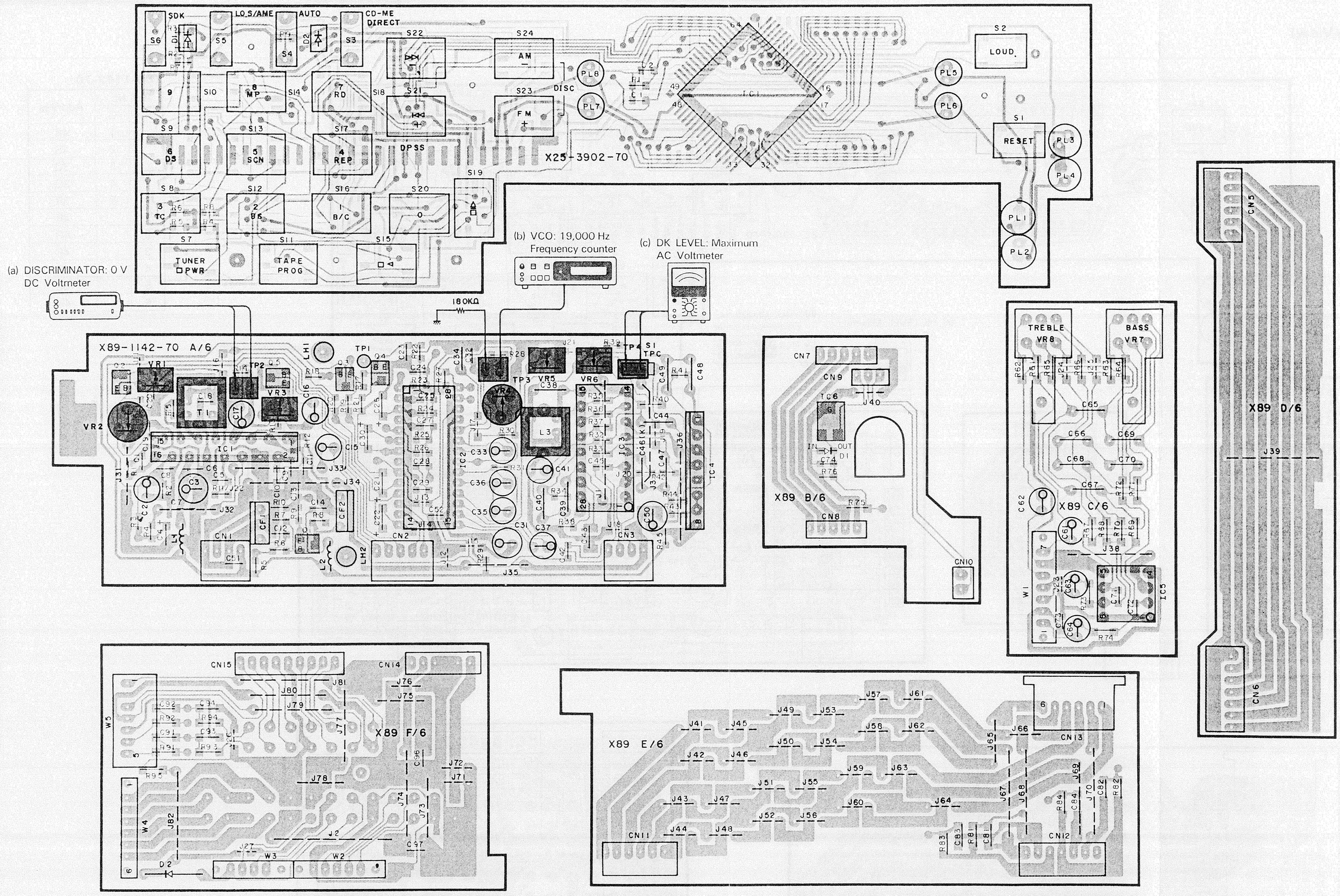
TROUBLE SHOOTING


Eject operation is defective
Motor does not rotate
Sub-motor is defective
Power is not supplied to sub-motor
Connector is defective
Electrical circuit is defective
Motor does not rotate due to excessive load
Foreign matter is in rack plate, gear, etc
Tape is entangled
Worm gear is in bad biting
Rotation of motor is not transmitted
Worm gear does not rotate
Gear slips
Gear is broken
Retaining ring is off
Container does not ascend
Tape is entangled
Action arm is broken
Holding spring of container is broken

TROUBLE SHOOTING


Abnormal sound occurs
Abnormal sound occurs during mode change
Abnormal sound occurs from sub-motor rotation
Transmission gear toothed section is flawed
Abnormal sound occurs during FF
Foreign matter is in FR gear, reel gear or flywheel toothed section
FR gear, reel gear or flywheel toothed section is flawed
Cassette tape is defective
Abnormal sound occurs from motor rotation
Abnormal sound occurs during play
Foreign matter is in flywheel, reel or takeup gear toothed section
Reel or takeup gear toothed section is flawed
Abnormal sound occurs from motor rotation

PC BOARD (Component Side View)


X25-3902-70
SDK
LO.S/AME
AUTO
CD-ME DIRECT
S22
S24
AM
S2
LOUD.
S6
S5
S4
S3
9
S10
8 MP
S14
7 RD
S18
S21
S23
DISC
FM
PL8
PL7
PL5
PL6
IC1
S9
S13
S17
6 DS
5 SCN
4 REP
DPSS
S19
S1
RESET
PL3
PL4
S8
S12
S16
S20
3 TC
2 BS
1 B/C
0
S7
S11
S15
TUNER PWR
TAPE PROG
PL1
PL2
180KΩ
X89-1142-70 A/6
VR1
VR2
VR3
VR4
VR5
VR6
TP1
TP2
TP3
TP4
TPC
S1
T1
L3
LH1
LH2
IC1
IC2
IC3
IC4
CN1
CN2
CN3
J31
J32
J33
J34
J35
J36
CN7
CN9
IC6
J40
IN
OUT
D1
X89 B/6
CN8
CN10
TREBLE VR8
BASS VR7
X89 C/6
J38
W1
IC5
CN5
X89 D/6
J39
CN6
CN15
CN14
X89 F/6
W5
W4
W3
W2
J82
D2
X89 E/6
CN13
CN11
CN12

(a) DISCRIMINATOR: 0 V
DC Voltmeter

(b) VCO: 19,000 Hz
Frequency counter

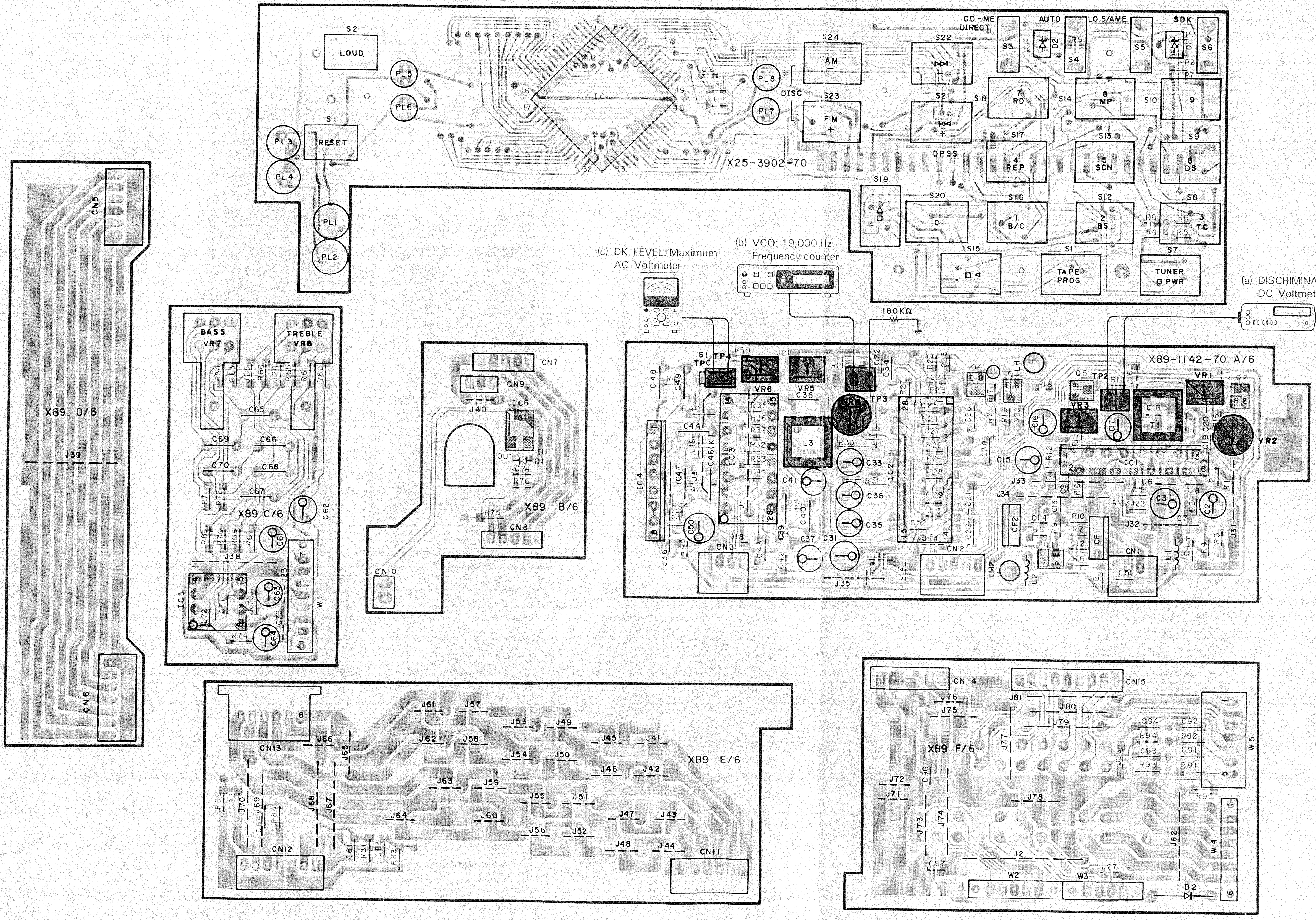
(c) DK LEVEL: Maximum
AC Voltmeter

X89-1142-70

Ref. No.		Address
IC	Q	
	1	4B
	2	3A
	3	3C
	4	3C
	5	3B
1		4B
2		4C
3		4D
4		4E
5		5H
6		4F

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Foil Side View)



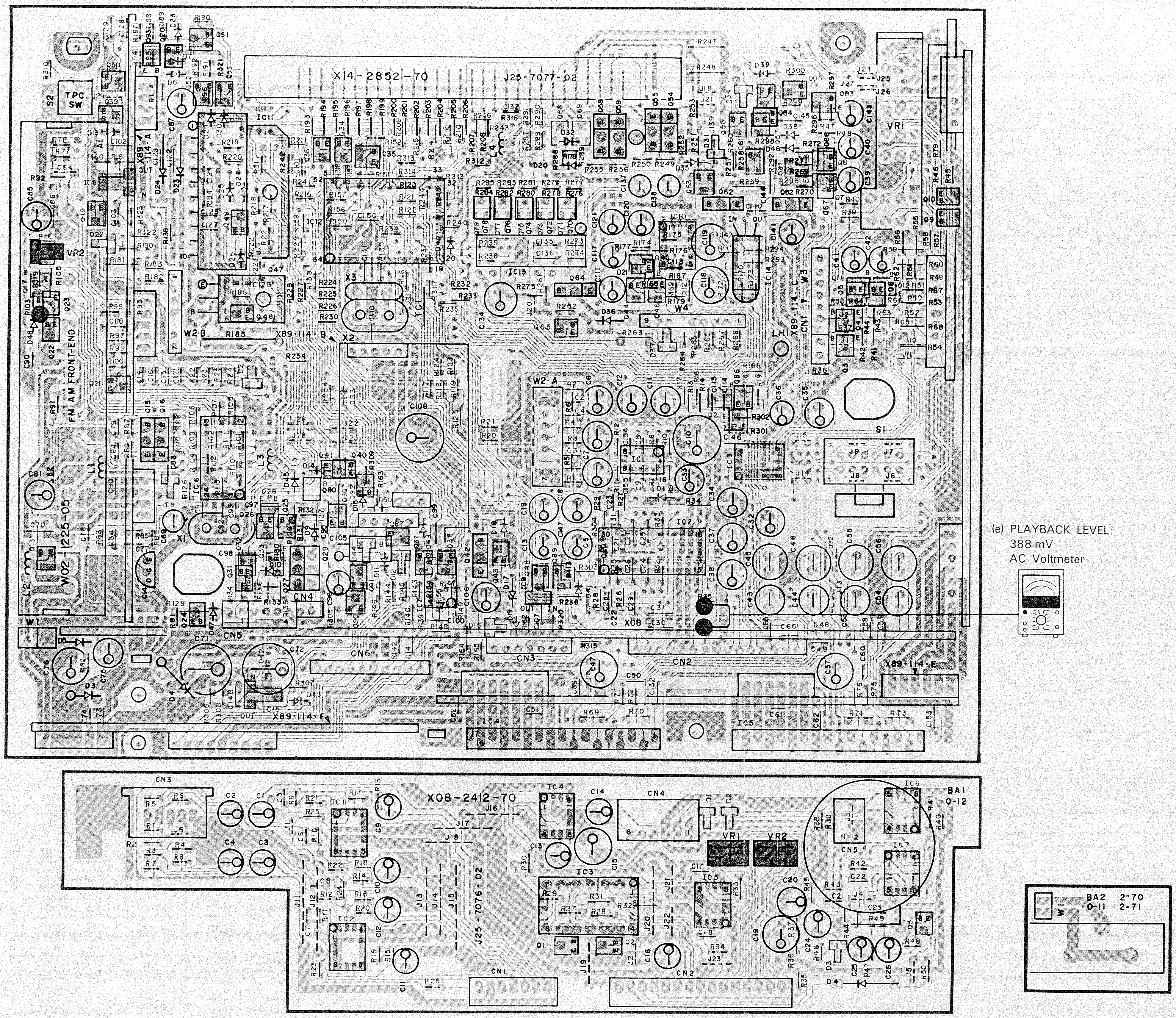
X25-3902-70
LOUD.
RESET
AM
FM
DISC
CD-ME DIRECT
AUTO
LO.S/AME
SDK
RD
MP
REP
SCN
DS
B/C
BS
TC
TAPE PROG
TUNER PWR
DPSS
(c) DK LEVEL: Maximum AC Voltmeter
(b) VCO: 19,000 Hz Frequency counter
(a) DISCRIMINATOR: 0 V DC Voltmeter
180KΩ
X89-1142-70 A/6
X89 B/6
X89 C/6
X89 D/6
X89 E/6
X89 F/6
BASS VR7
TREBLE VR8
TP1
TP2
TP3
TPC

X89-1142-70

Ref. No.		Address
IC	Q	
	1	4R
	2	4S
	3	3Q
	4	3Q
	5	3R
1		4R
2		4Q
3		4P
4		4O
5		5L
6		4N

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component Side View)


X14-2852-70
J25-7077-02
X08-2412-70
J25-7076-02
X89-114-A
X89-114-B
X89-114-C
X89-114-E
X89-114-F
W02-1225-05
FM AM FRONT-END
TPC SW
VR1
VR2
S1
CN1
CN2
CN3
CN4
CN5
CN6
IC1
IC2
IC4
IC5
BA1 0-12
BA2 0-11 2-70 2-71
U
V
W
X
Y
Z
AA
AB
AC
1
2
3
4
5
6
7

(e) PLAYBACK LEVEL:
388 mV
AC Voltmeter

Refer to the schematic diagram for the values of resistors and capacitors.

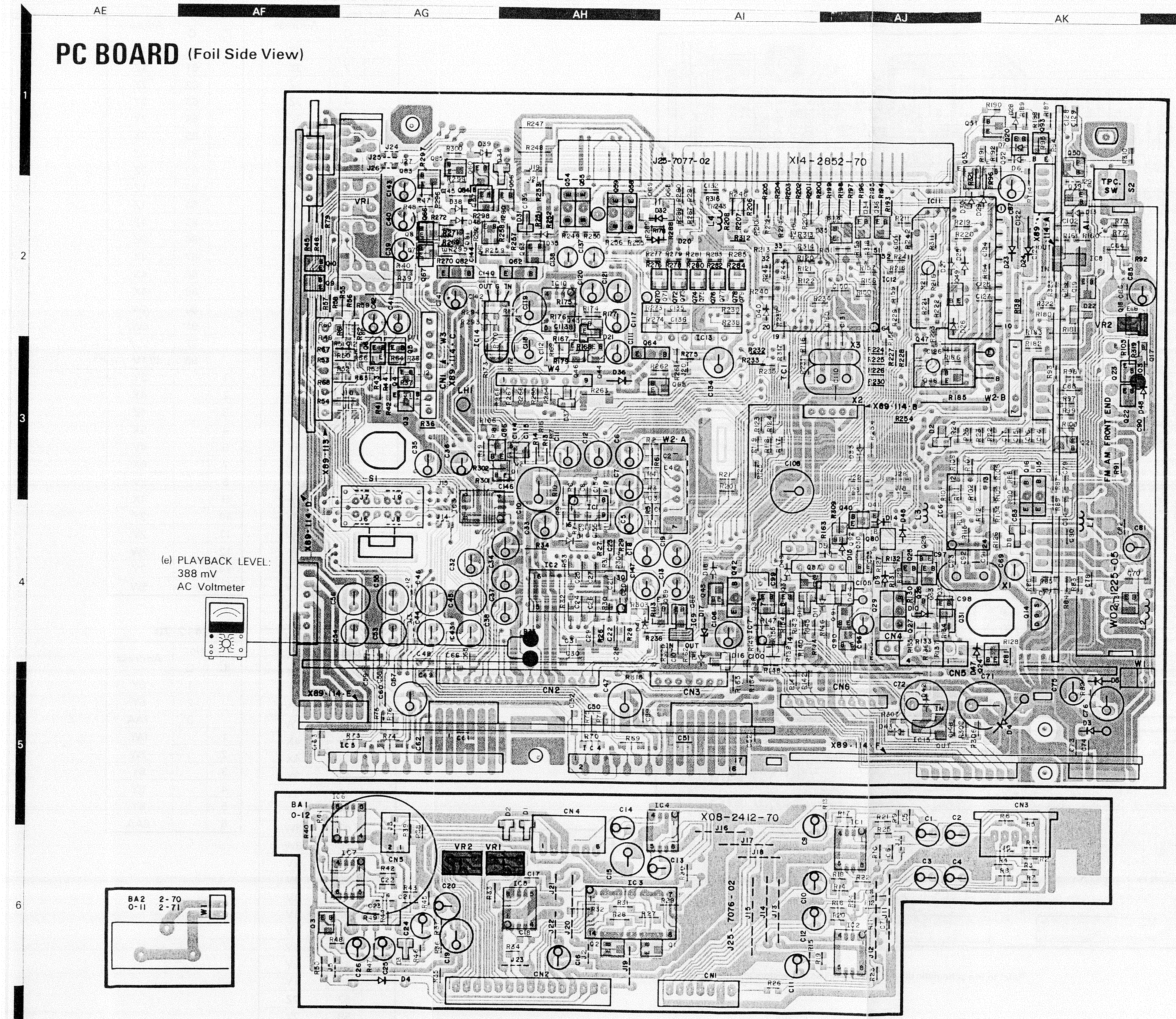
X14-2852-70

Ref. No.		Address
IC	Q	
	1	3Y
	2	3Y
	3	3Z
	4	3Z
	5	3Z
	6	3Z
	7	2Z
	8	2Z
	9	2AA
	10	2AA
	11	3Z
	12	3Z
	13	4U
	14	4V
	15	3V
	16	3V
	17	3U
	18	2U
	19	2V
	20	1V
	21	3V
	22	3U
	23	3U
	24	4V
	25	4W
	26	4W
	27	4W
	28	4W
	30	4W
	31	4V
	32	4W
	33	4W
	34	2W
	35	2W
	36	2W
	37	4X
	38	4X
	39	1V
	40	4W
	41	4W
	42	4X
	43	4X
	44	3Y
	45	3Y
	46	3Y
	47	3W
	48	3W
	49	2V
	50	1V
	51	1V
	52	1V
	53	1V
	54	2Y
	55	2Y
	56	1Y
	57	2Z
	58	2Y
	59	2Y
	60	1Z
	61	1Z
	62	2Y
	63	2Y
	64	2Y
	65	3X
	81	2Z
	82	2Z
	83	1Z
	84	1Z
	85	1Z
	86	3Z
	87	4X
	88	4X
	89	4X
	90	4W
	91	4W
	92	
	93	1V
1		3Y
2		4Y
3		4Z
4		5X
6		4V
7		4X
8		2V
9		4X
10		2Y
11		2V
12		2W
14		2Y
15		5W

X08-2412-70

Ref. No.		Address
IC	Q	
	1	6Y
	2	6Y
	3	7AA
1		6W
2		7W
3		6Y
4		6Y
5		6Y
6		6AA

PC BOARD (Foil Side View)


AE
AF
AG
AH
AI
AJ
AK
AL
AM
AN
1
2
3
4
5
6
7
X14-2852-70
J25-7077-02
X89-114-C
X89-114-B
X89-114-D
X89-114-E
X89-114-F
X89-114-A
X89-113
W02-1225-05
FM AM FRONT END
TPC SW
CN2
CN3
CN4
CN5
CN6
X08-2412-70
J25-7076-02
VR1
VR2
BA1 0-12
BA2 0-11
2-70
2-71

(e) PLAYBACK LEVEL:
388 mV
AC Voltmeter

Refer to the schematic diagram for the values of resistors and capacitors.

X14-2852-70

Ref. No.		Address
IC	Q	
	1	3AH
	2	3AH
	3	3AG
	4	3AG
	5	3AG
	6	3AG
	7	2AG
	8	2AG
	9	2AF
	10	2AF
	11	3AG
	12	3AG
	13	4AL
	14	4AK
	15	3AK
	16	3AK
	17	2AL
	18	2AL
	19	2AL
	20	1AK
	21	3AK
	22	3AL
	23	3AL
	24	4AK
	25	4AJ
	26	4AJ
	27	4AJ
	28	4AK
	31	4AK
	32	4AK
	33	4AK
	34	2AJ
	35	2AJ
	36	2AJ
	37	4AJ
	38	4AI
	39	2AK
	40	4AJ
	41	4AJ
	42	4AI
	43	4AI
	44	2AH
	45	2AH
	46	2AH
	47	3AK
	48	3AK
	49	2AK
	50	1AK
	51	1AK
	52	1AK
	53	1AK
	54	2AH
	55	2AH
	56	2AH
	57	2AH
	58	3AI

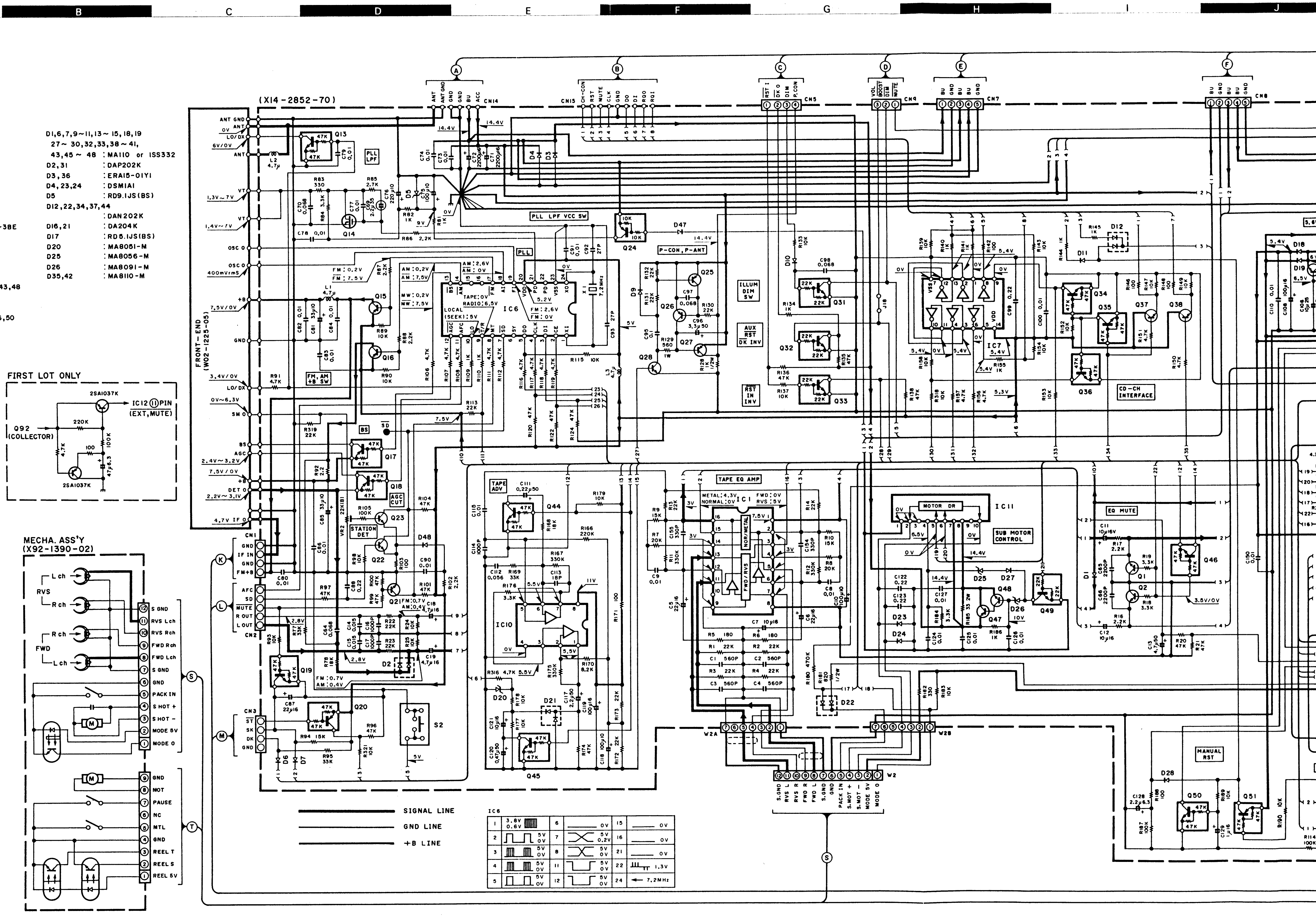
Ref. No.		Address
IC	Q	
	59	3AI
	60	1AG
	61	2AH
	62	2AH
	63	2AH
	64	3AI
	65	3AI
	81	2AG
	82	2AG
	83	1AG
	84	1AG
	85	1AG
	86	3AH
	87	4AJ
	88	4AI
	89	4AI
	90	4AJ
	91	4AJ
	92	4AJ
	93	1AK
1		4AH
2		4AH
3		4AG
4		5AH
5		
6		3AK
7		4AI
8		2AL
9		4AI
10		2AH
11		2AK
12		2AJ
14		2AH
15		5AK

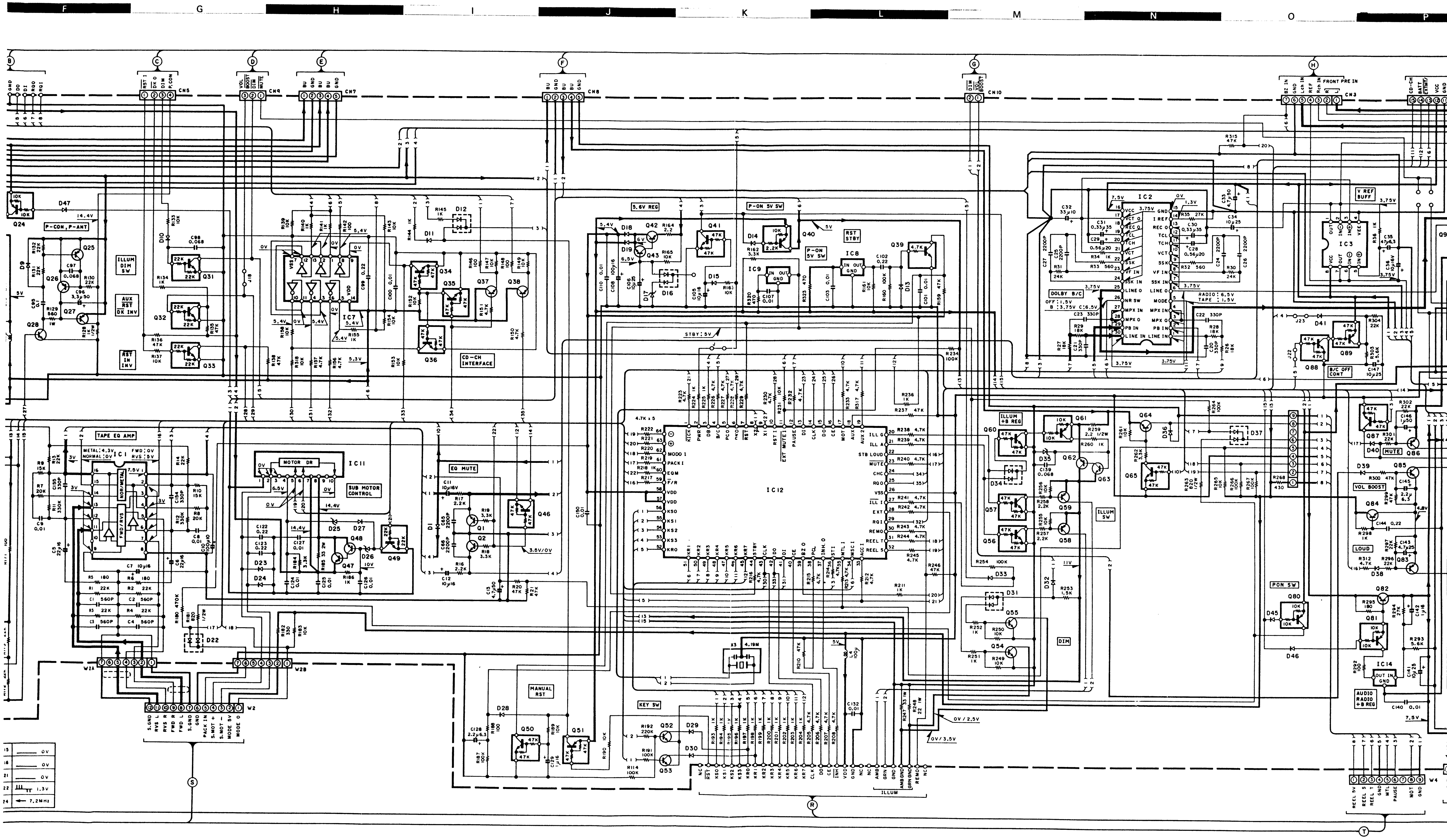
X08-2412-70

Ref. No.		Address
IC	Q	
	1	7AI
	2	7AI
	3	6AF
1		6AJ
2		6AJ
3		6AH
4		6AI
5		6AH
6		6AG

IC1	TA7705F
IC2	CXA1332M
IC3	M5219FP
IC4	TA8221H
IC6	LC7218M
IC7	TC74HC04AF
IC8	PST529F-MT
IC10	NJM4565M
IC11	TA7291P
IC12	75116GF-616-3BE
IC14	M5237L
IC15, 19	PST529D-MT
Q1~10	2SD1757K
Q11, 12, 21~23, 28, 37, 38, 43, 48 52, 53, 63, 84, 90	2SC2412K
Q13, 19, 34~36, 41, 44~46, 50 56, 57, 60, 65, 87, 88, 91	DTC144EK
Q14	2SK669
Q15, 16, 27, 58, 59	2SB822(Q,R)
Q17, 18, 20, 51, 89, 92	DTA144EK
Q24, 61, 80, 81	DTA114EK
Q25, 26, 83, 85, 86	2SA1037K
Q31~33, 49	DTC124EK
Q39	DTC143TK
Q40	DTB123YK
Q42, 64	2SA1428
Q47	2SA1357
Q54, 55	2SD1055F

D1, 6, 7, 9~11, 13~15, 18, 19 27~30, 32, 33, 38~41, 43, 45~48	MA110 or 1SS332
D2, 31	DAP202K
D3, 36	ERA15-01Y1
D4, 23, 24	DSM1A1
D5	RD9.1JS(BS)
D12, 22, 34, 37, 44	DAN202K
D16, 21	DA204K
D17	RD5.1JS(BS)
D20	MA8051-M
D25	MA8056-M
D26	MA8091-M
D35, 42	MA8110-M


A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
(X14-2852-70)
FRONT-END (W02-1225-05)
FIRST LOT ONLY
Q92 (COLLECTOR)
IC12 ⑪PIN (EXT, MUTE)
2SA1037K
MECHA. ASS'Y (X92-1390-02)
RVS
FWD
Lch
Rch
S GND
RVS Lch
RVS Rch
FWD Rch
FWD Lch
PACK IN
S HOT +
S HOT -
MODE 5V
MODE 0
GND
MOT
PAUSE
NC
MTL
REEL T
REEL S
REEL 5V
CN14
CN15
CN5
CN9
CN7
CN8
CN1
CN2
CN3
W2A
W2B
W2
PLL LPF
PLL LPF VCC SW
PLL
IC6
FM, AM +B SW
BS
AGC CUT
STATION DET
P-CON, P-ANT
ILLUM DIM SW
AUX RST DK INV
RST IN INV
CD-CH INTERFACE
IC7
TAPE ADV
IC10
TAPE EQ AMP
IC1
NOR/METAL
FWD/RVS
MOTOR DR
IC11
SUB MOTOR CONTROL
EQ MUTE
MANUAL RST
S2
SIGNAL LINE
GND LINE
+B LINE
IC6
7,2MHz


F
G
H
I
J
K
L
M
N
O
P
CN5
CN9
CN7
CN8
CN10
CN3
FRONT PRE IN
P-CON, P-ANT
ILLUM DIM SW
AUX RST DK INV
RST IN INV
TAPE EQ AMP
IC1
NOR/METAL
FWD/RVS
METAL:4.3V NORMAL:0V
FWD:0V RVS:5V
IC7
IC11
MOTOR DR
SUB MOTOR CONTROL
CD-CH INTERFACE
EQ MUTE
5.6V REG
P-ON 5V SW
RST STBY
IC8
IC9
STBY:5V
IC12
MANUAL RST
KEY SW
X3 4.19M
IC2
DOLBY B/C
OFF:1.5V B:3.75V C:6.5V
RADIO:6.5V TAPE:1.5V
V REF BUFF
IC3
B/C OFF CONT
ILLUM +B REG
ILLUM SW
DIM
PON SW
MUTE
VOL BOOST
LOUD
IC14
AUDIO RADIO +B REG
W2A
W2B
W2
W4
ILLUM
0V
1.3V
7.2MHz
0V/2.5V
0V/3.5V

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

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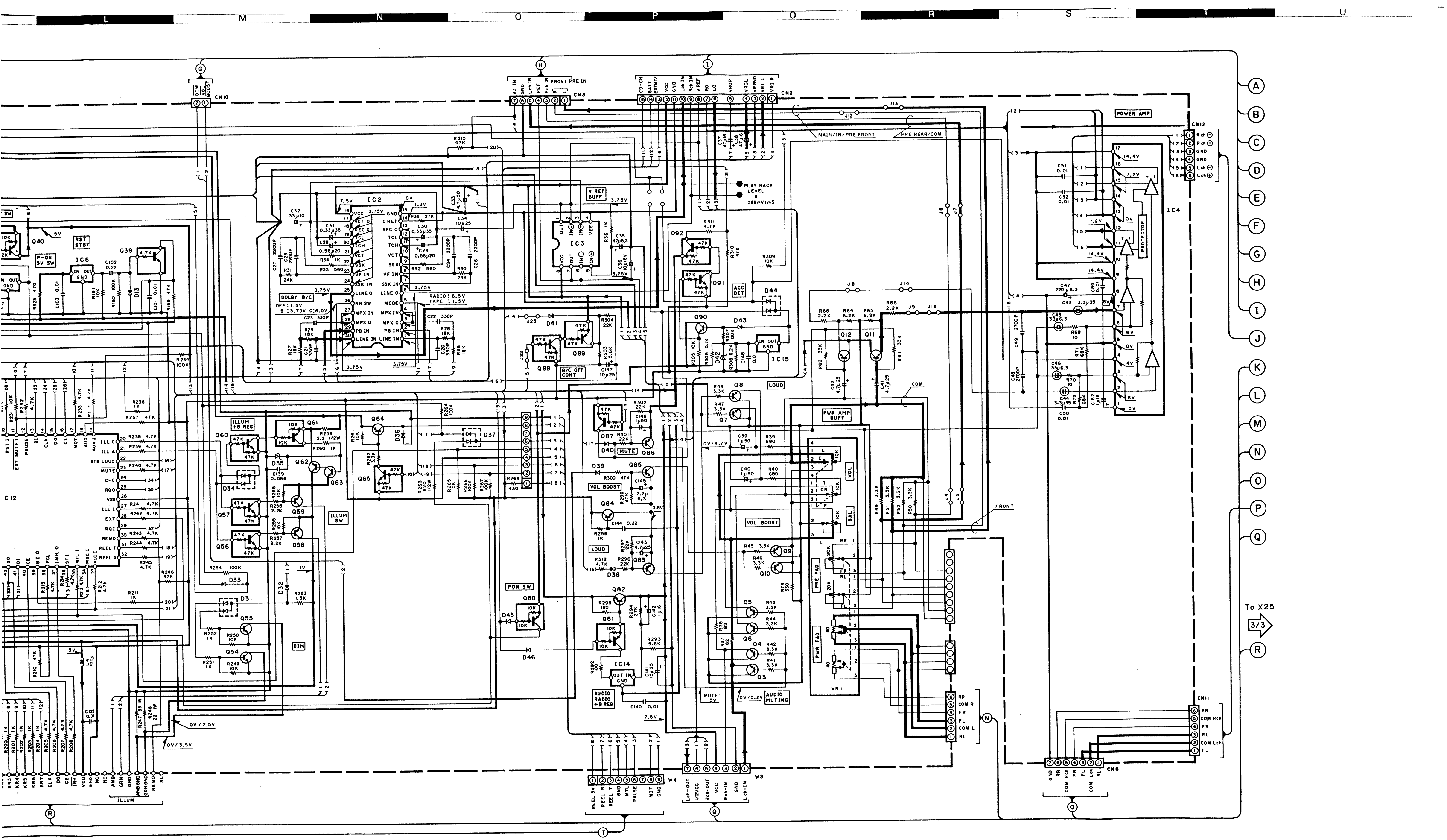
Die angegebenen Gleich
hochohmigen Spannung
ken die Meßwerte aufgru
zelnen Instrumenten oder


L
M
N
O
P
Q
R
S
T
U
IC2
IC3
IC4
IC8
IC14
IC15
POWER AMP
PROTECTOR
PWR AMP BUFF
V REF BUFF
DOLBY B/C
B/C OFF CONT
ACC DET
RST STBY
P-ON 5V SW
ILLUM +B REG
ILLUM SW
DIM
PON SW
LOUD
MUTE
VOL BOOST
VOL
BAL
PRE FAD
PWR FAD
AUDIO RADIO +B REG
AUDIO MUTING
PLAY BACK LEVEL = 388mVrmS
MAIN/IN/PRE FRONT
PRE REAR/COM
FRONT
COM
CN2
CN3
CN6
CN10
CN11
CN12
W3
W4
VR1
To X25 3/3

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

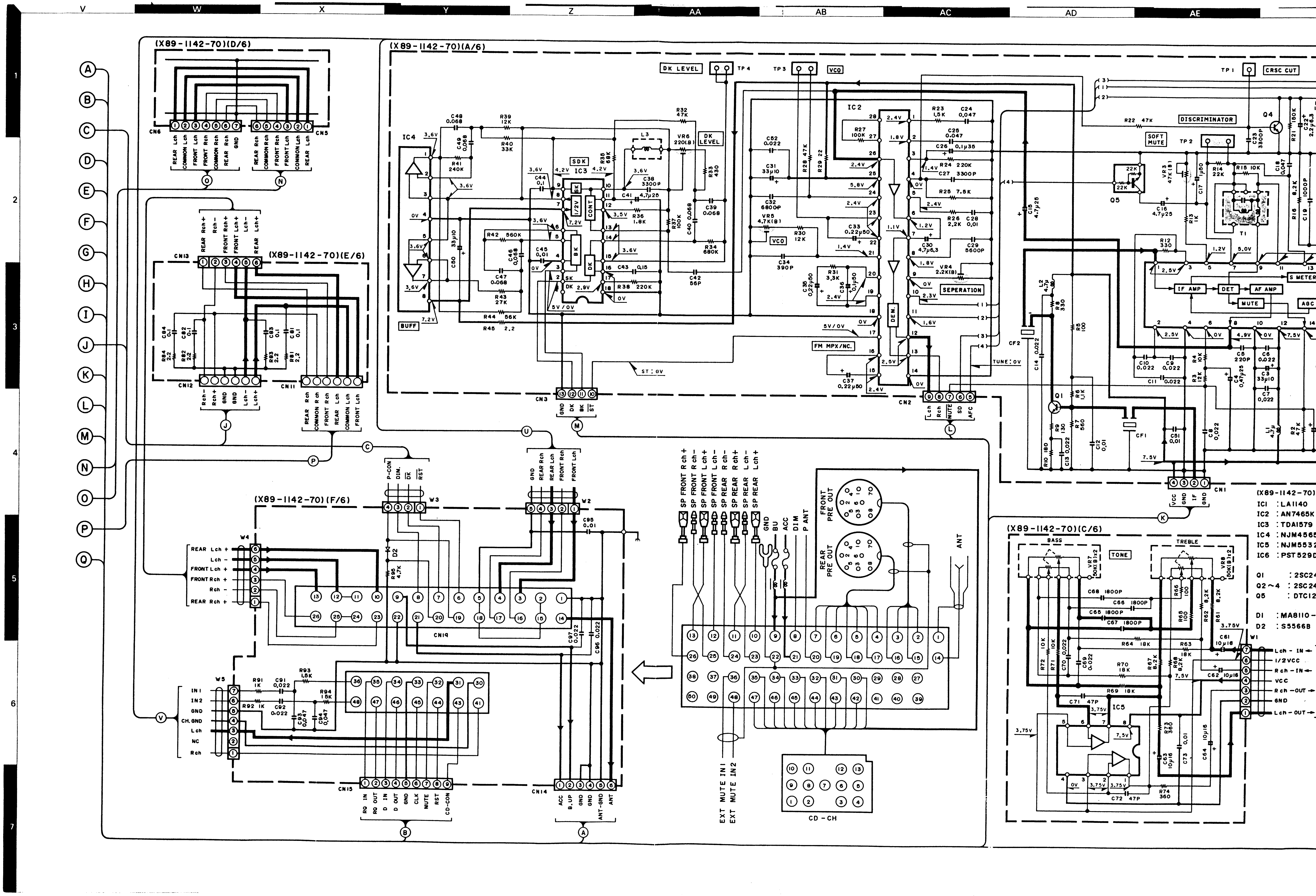
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

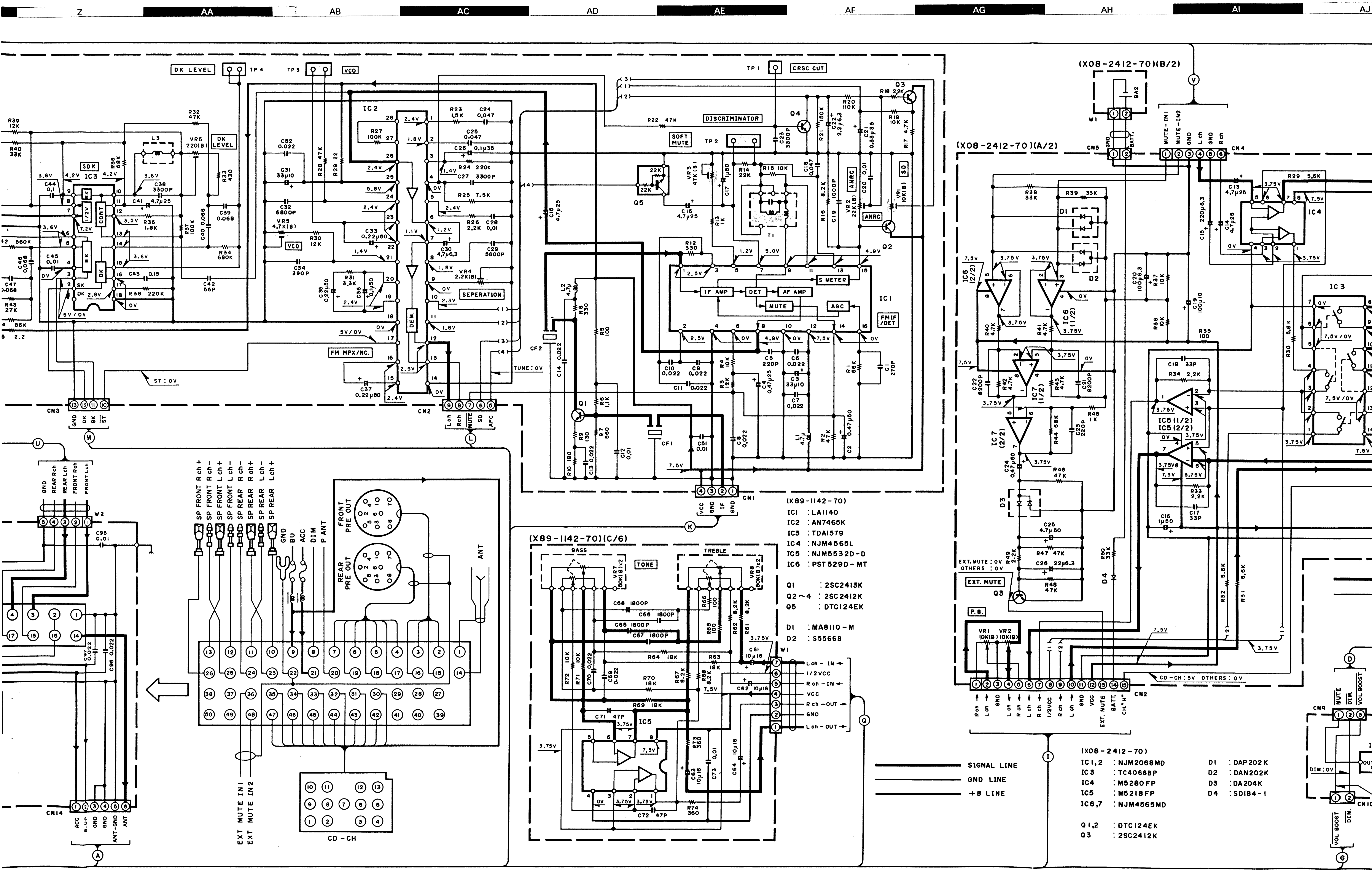
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

KRC-851D

KENWOOD

Y36-1262-70


V
W
X
Y
Z
AA
AB
AC
AD
AE
1
2
3
4
5
6
7
(X89-1142-70)(D/6)
CN6
CN5
REAR Lch
COMMON Lch
FRONT Lch
COMMON Rch
REAR Rch
GND
(X89-1142-70)(A/6)
DK LEVEL
TP4
TP3
VCO
TP1
CRSC CUT
IC4
IC2
IC3
SDK
BUFF
SEPERATION
FM MPX/NC.
DEM.
DISCRIMINATOR
SOFT MUTE
TP2
Q4
Q5
T1
IF AMP
DET
AF AMP
MUTE
S METER
AGC
CF1
CF2
Q1
CN3
GND
DK
BK
ST
CN2
Lch
Rch
MUTE
SD
AFC
CN1
VCC
GND
IF
GND
(X89-1142-70)(E/6)
CN13
Rch+
Rch-
FRONT Rch+
FRONT Rch-
Lch-
Lch+
CN12
CN11
REAR Rch
COMMON Rch
FRONT Rch
REAR Lch
COMMON Lch
FRONT Lch
(X89-1142-70)(F/6)
W3
P-CON
DIM.
DK
RST
W2
GND
REAR Rch
REAR Lch
FRONT Rch
FRONT Lch
W4
REAR Lch +
Lch -
FRONT Lch +
FRONT Rch +
Rch -
REAR Rch +
CN19
W5
IN1
IN2
GND
CH.GND
Lch
NC
Rch
CN15
RQ IN
RQ OUT
D IN
D OUT
GND
CLK
MUTE
RST
CD-CON
CN14
ACC
B.UP
GND
GND
ANT-GND
ANT
SP FRONT Rch +
SP FRONT Rch -
SP FRONT Lch +
SP FRONT Lch -
SP REAR Rch -
SP REAR Rch +
SP REAR Lch -
SP REAR Lch +
GND
BU
ACC
DIM
P ANT
FRONT PRE OUT
REAR PRE OUT
ANT
EXT MUTE IN1
EXT MUTE IN2
CD-CH
(X89-1142-70)(C/6)
BASS
TREBLE
TONE
VR7 50K(B)×2
VR8 50K(B)×2
IC5
W1
Lch-IN
1/2VCC
Rch-IN
VCC
Rch-OUT
GND
Lch-OUT
(X89-1142-70)
IC1 : LA1140
IC2 : AN7465K
IC3 : TDA1579
IC4 : NJM4565
IC5 : NJM5532
IC6 : PST529D
Q1 : 2SC24
Q2~4 : 2SC24
Q5 : DTC12
D1 : MA8110-
D2 : S5566B


Z
AA
AB
AC
AD
AE
AF
AG
AH
AI
AJ
DK LEVEL
TP 4
TP 3
VCO
TP 1
CRSC CUT
(X08-2412-70)(B/2)
(X08-2412-70)(A/2)
IC2
IC3
SDK
DISCRIMINATOR
SOFT MUTE
TP 2
ANRC
SD
S METER
IF AMP
DET
AF AMP
MUTE
AGC
IC1
FMIF /DET
SEPERATION
FM MPX/NC.
DEM.
TUNE : 0V
ST : 0V
CN1
CN2
CN3
CN4
CN5
CN9
CN14
W1
W2
CF1
CF2
Q1
Q2
Q3
Q4
Q5
IC4
IC5 (1/2)
IC5 (2/2)
IC6 (1/2)
IC6 (2/2)
IC7 (1/2)
IC7 (2/2)
D1
D2
D3
D4
EXT. MUTE
P.B.
EXT. MUTE : 0V
OTHERS : 0V
CD-CH : 5V OTHERS : 0V
(X89-1142-70)(C/6)
TONE
BASS
TREBLE
IC5
SP FRONT R ch +
SP FRONT R ch -
SP FRONT L ch +
SP FRONT L ch -
SP REAR R ch -
SP REAR R ch +
SP REAR L ch -
SP REAR L ch +
GND
BU
ACC
DIM
P ANT
FRONT PRE OUT
REAR PRE OUT
ANT
EXT MUTE IN1
EXT MUTE IN2
CD-CH
Lch - IN
1/2VCC
Rch - IN
VCC
Rch - OUT
GND
Lch - OUT
VOL BOOST
DIM.
MUTE
DIM : 0V

(X89-1142-70)

IC1 : LA1140
IC2 : AN7465K
IC3 : TDA1579
IC4 : NJM4565L
IC5 : NJM5532D-D
IC6 : PST529D-MT

Q1 : 2SC2413K
Q2～4 : 2SC2412K
Q5 : DTC124EK

D1 : MA8110-M
D2 : S5566B

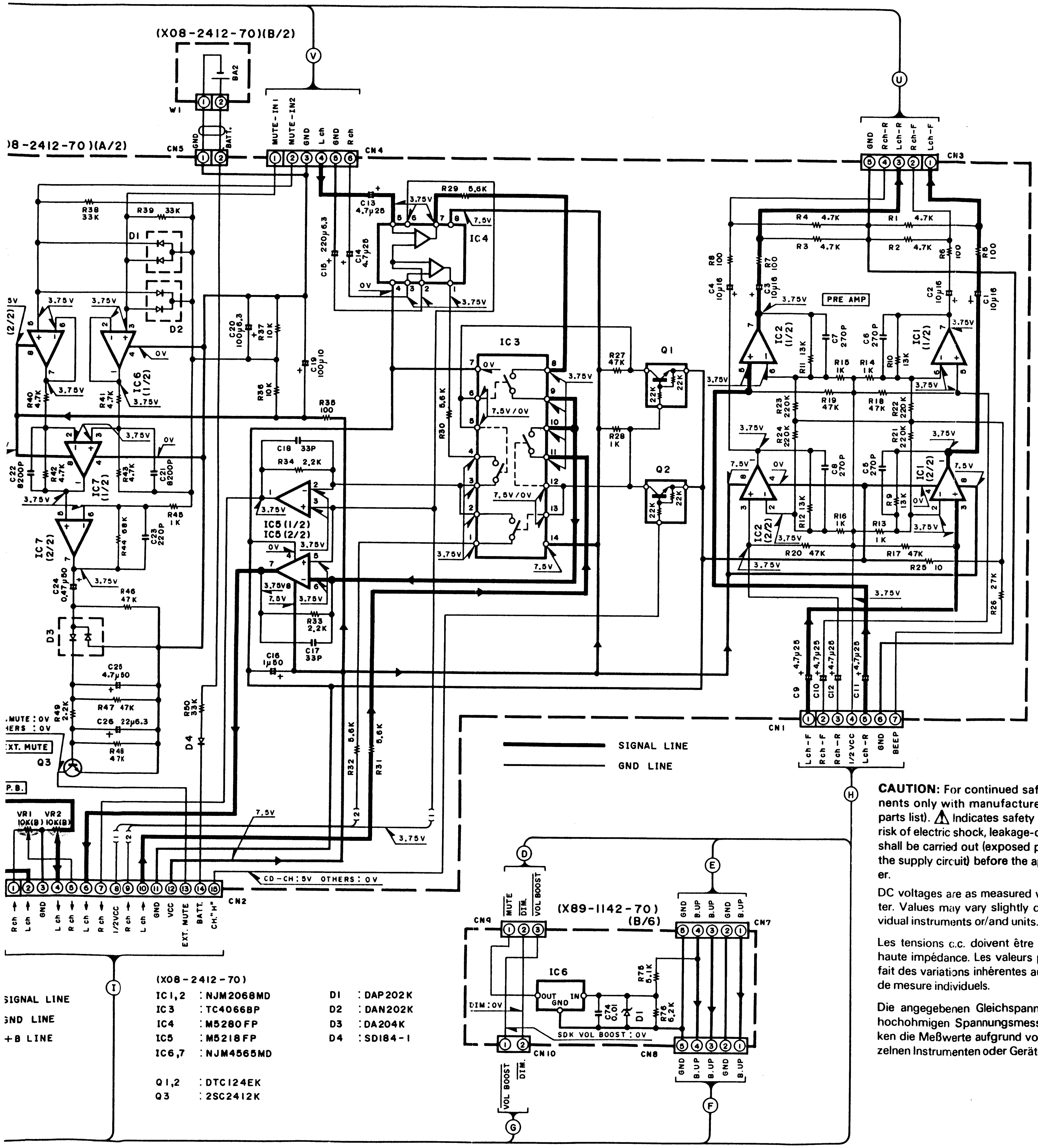
SIGNAL LINE
GND LINE
+B LINE

(X08-2412-70)

IC1,2 : NJM2068MD
IC3 : TC4066BP
IC4 : M5280FP
IC5 : M5218FP
IC6,7 : NJM4565MD

Q1,2 : DTC124EK
Q3 : 2SC2412K

D1 : DAP202K
D2 : DAN202K
D3 : DA204K
D4 : SD184-1

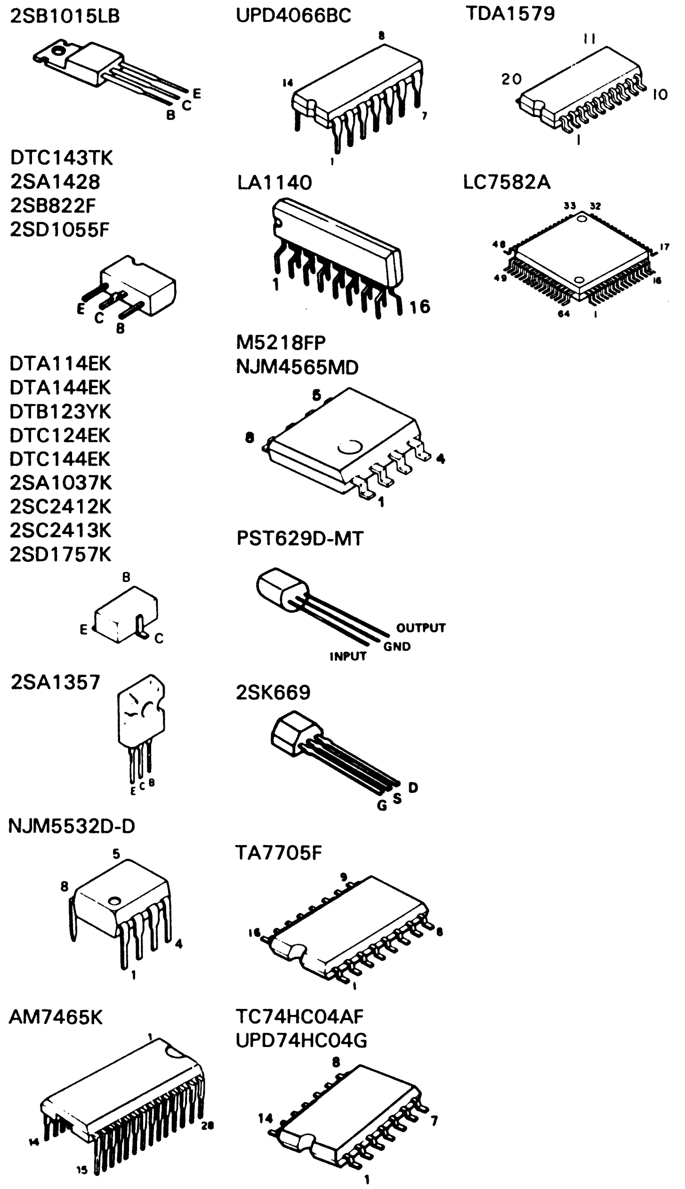

(X08-2412-70)(B/2)
)8-2412-70)(A/2)
(X89-1142-70) (B/6)
CN1
CN2
CN3
CN4
CN5
CN7
CN8
CN9
CN10
IC1 (1/2)
IC1 (2/2)
IC2 (1/2)
IC2 (2/2)
IC3
IC4
IC5 (1/2)
IC5 (2/2)
IC6
IC6 (1/2)
IC7 (1/2)
IC7 (2/2)
Q1
Q2
Q3
D1
D2
D3
D4
PRE AMP
VR1 10K(B)
VR2 10K(B)
BA2
MUTE-IN1
MUTE-IN2
GND
Lch
Rch
Lch-F
Rch-F
Lch-R
Rch-R
1/2VCC
BEEP
VCC
EXT. MUTE
BATT.
CH."H"
B.UP
MUTE
DIM.
VOL BOOST
DIM : 0V
SDK VOL BOOST : 0V
CD-CH : 5V OTHERS : 0V
.MUTE : 0V
EXT. MUTE
3.75V
7.5V
7.5V/0V
0V
SIGNAL LINE
GND LINE
SIGNAL LINE
GND LINE
+B LINE

(X08-2412-70)

IC1,2 : NJM2068MD
IC3 : TC4066BP
IC4 : M5280FP
IC5 : M5218FP
IC6,7 : NJM4565MD

Q1,2 : DTC124EK
Q3 : 2SC2412K

D1 : DAP202K
D2 : DAN202K
D3 : DA204K
D4 : SD184-1


2SB1015LB
B C E
UPD4066BC
TDA1579
LA1140
LC7582A
DTC143TK
2SA1428
2SB822F
2SD1055F
E C B
M5218FP
NJM4565MD
DTA114EK
DTA144EK
DTB123YK
DTC124EK
DTC144EK
2SA1037K
2SC2412K
2SC2413K
2SD1757K
PST629D-MT
OUTPUT
GND
INPUT
2SA1357
E C B
2SK669
G S D
NJM5532D-D
TA7705F
AM7465K
TC74HC04AF
UPD74HC04G

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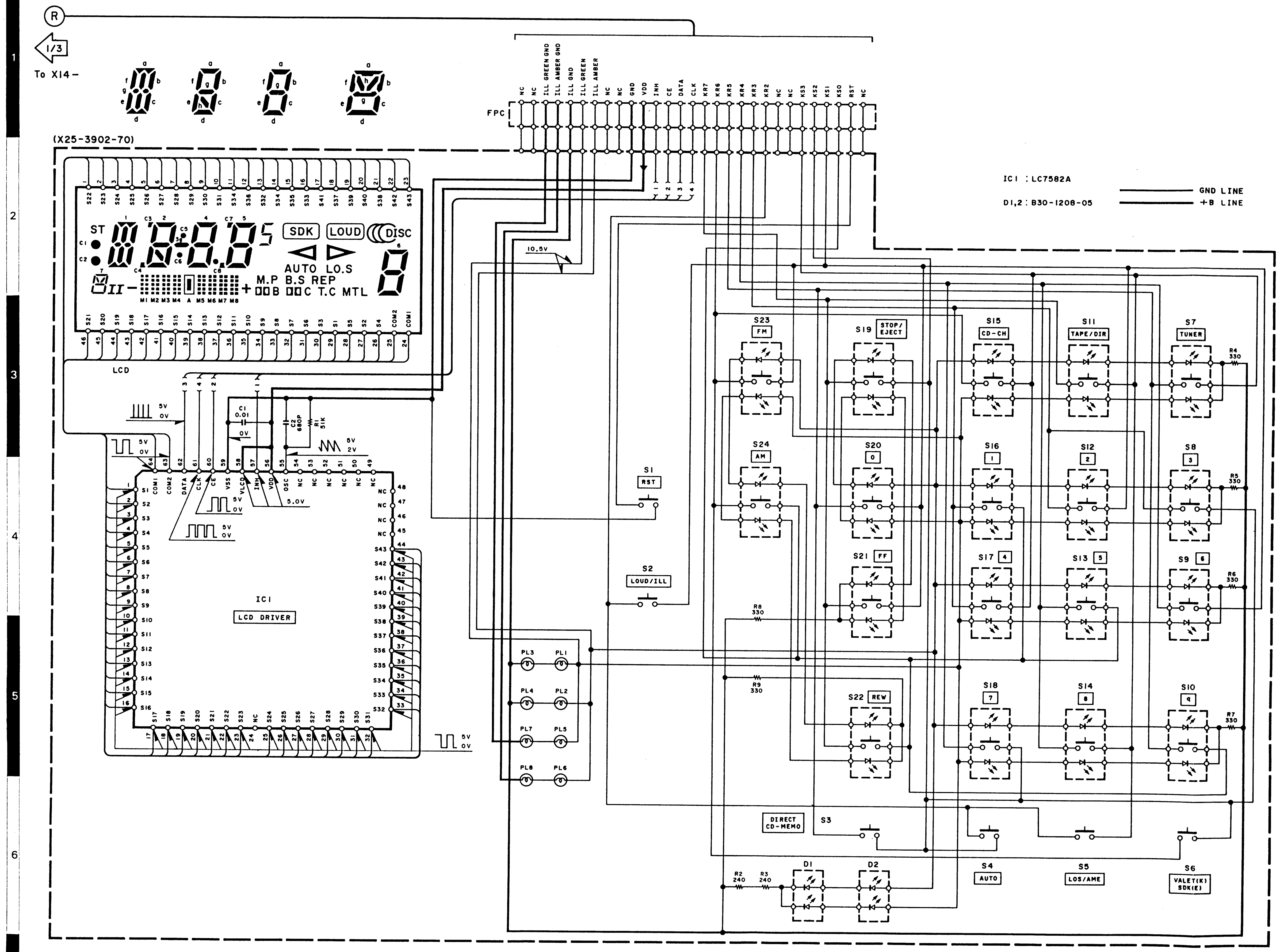
Y36-1262-70

KRC-851D

KENWOOD


R
1/3
To X14-
(X25-3902-70)
FPC
NC
ILL GREEN GND
ILL AMBER GND
ILL GND
ILL GREEN
GND
VDD
INH
CE
DATA
CLK
KR7
KR6
KR5
KR4
KR3
KR2
KS3
KS2
KS1
KS0
RST
ST
SDK
LOUD
DISC
AUTO
LO.S
M.P
B.S
REP
T.C
MTL
M1 M2 M3 M4 A M5 M6 M7 M8
LCD
IC1
LCD DRIVER
C1 0.01
C2 680P
R1 51K
10.5V
5.0V
5V
2V
0V
IC1 : LC7582A
D1,2 : B30-1208-05
GND LINE
+B LINE
S1 RST
S2 LOUD/ILL
S3
DIRECT CD-MEMO
S4 AUTO
S5 LOS/AME
S6 VALET(K) SDK(E)
S7 TUNER
S8 3
S9 6
S10 9
S11 TAPE/DIR
S12 2
S13 5
S14 8
S15 CD-CH
S16 1
S17 4
S18 7
S19 STOP/EJECT
S20 0
S21 FF
S22 REW
S23 FM
S24 AM
R2 240
R3 240
R4 330
R5 330
R6 330
R7 330
R8 330
R9 330
PL1
PL2
PL3
PL4
PL5
PL6
PL7
PL8
D1
D2

No.	COM1	COM2	No.	COM1	COM2	No.	COM1	COM2
1	1e	1d	17	C8	5c	33	REP	B.S
2	1g	1h2	18	5e	5d	34	▯▯C	▯▯B
3	1f	1h1	19	5f	C7	35	+	M.P
4	1a	1b	20	5a	5b	36	M8	M7
5	C4	1c	21	5g	5	37	M6	M5
6	2e	2d	22	▷	◁	38	----	A
7	2g	2h	23	LOUD	SDK	39	M4	M3
8	2f	C3	24	COM1	----	40	M2	M1
9	2a	2b	25	----	COM2	41	–	I RIGHT
10	C6	2c	26	6a	6b	42	I LEFT	7b.c
11	----	C5	27	6g	----	43	7e.f	7d
12	3g	4c	28	----	6c	44	7h	7a.g
13	4e	4d	29	6e	6d	45	C1	C2
14	4f	----	30	6f	DISC	46	ST	----
15	4a	4b	31	LO.S	AUTO			
16	4g	d.p.	32	MTL	T.C			

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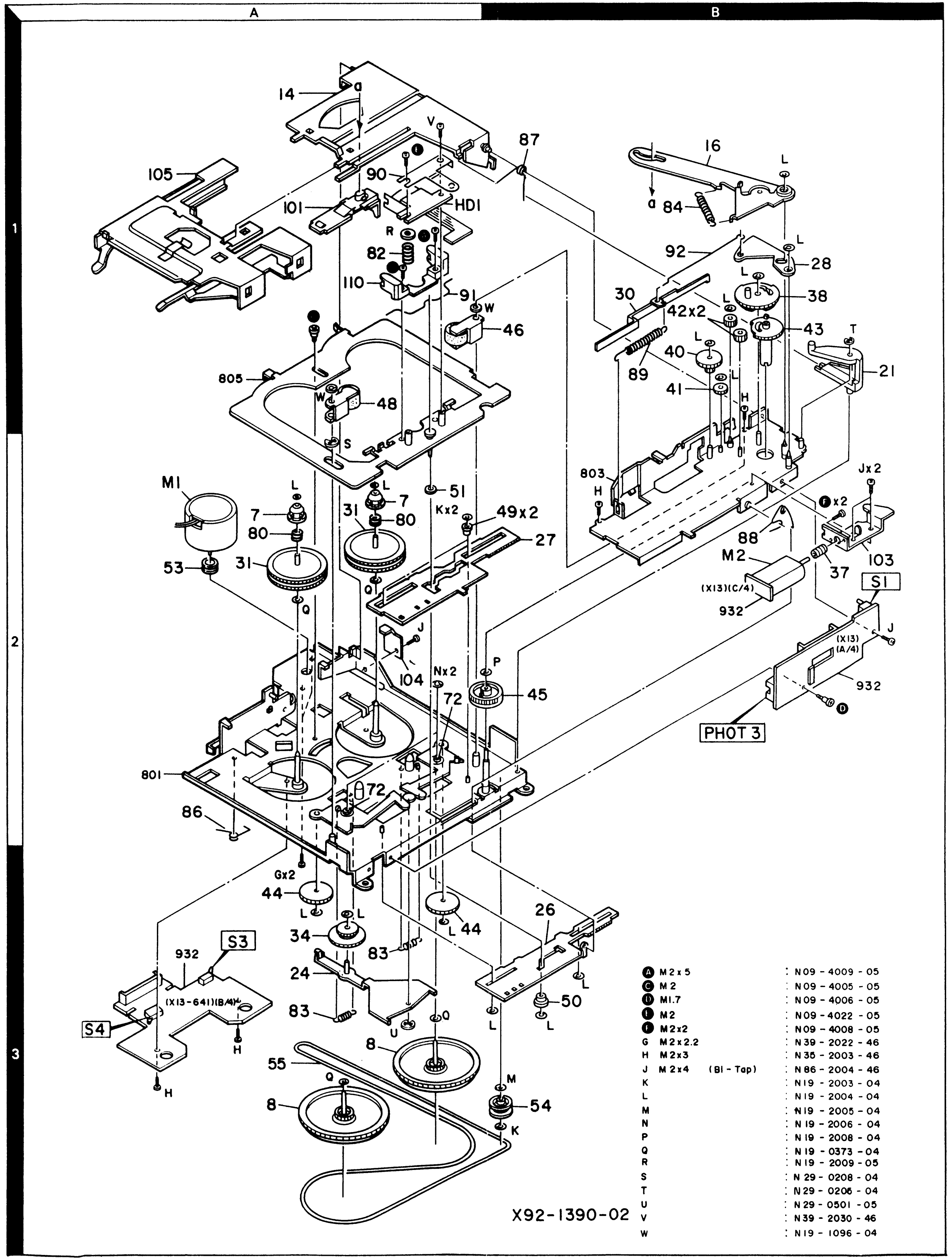
KRC-851D

KENWOOD

KRC-851D

EXPLODED VIEW(MECHANISM)

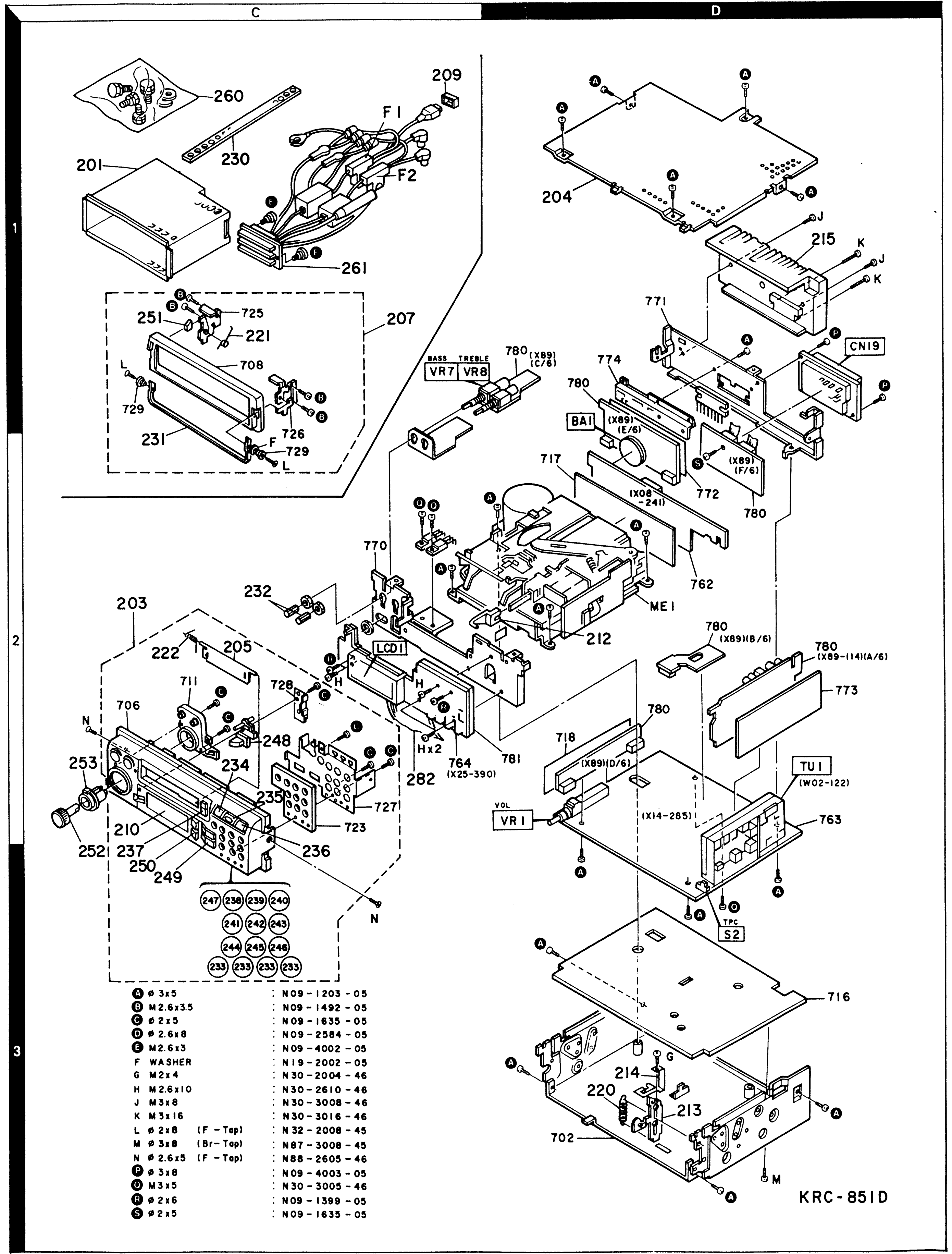

A
B
1
2
3
14
a
105
V
87
90
16
L
HDI
101
a 84
R
82
92
28
110
L
30
38
91
W
46
42x2
43
T
L
40
21
805
89
41
48
S
H
803
H
MI
Jx2
L
7
51
31
7
Kx2
49x2
80
27
80
C x2
53
31
88
103
Q
M2
37
(X13)(C/4)
SI
932
J
(X13)
(A/4)
104
Nx2
P
45
72
932
PHOT 3
801
72
86
Gx2
44
L
L
44
26
34
932
S3
83
24
50
(X13-641)(B/4)
L
83
U
S4
H
8
55
M
54
8
K
X92-1390-02

Ⓐ	M 2 x 5		: N09 - 4009 - 05
Ⓒ	M 2		: N09 - 4005 - 05
Ⓓ	M1.7		: N09 - 4006 - 05
Ⓔ	M 2		: N09 - 4022 - 05
Ⓕ	M 2x2		: N09 - 4008 - 05
G	M 2 x 2.2		: N39 - 2022 - 46
H	M 2x3		: N35 - 2003 - 46
J	M 2x4	(BI - Tap)	: N86 - 2004 - 46
K			: N19 - 2003 - 04
L			: N19 - 2004 - 04
M			: N19 - 2005 - 04
N			: N19 - 2006 - 04
P			: N19 - 2008 - 04
Q			: N19 - 0373 - 04
R			: N19 - 2009 - 05
S			: N29 - 0208 - 04
T			: N29 - 0206 - 04
U			: N29 - 0501 - 05
V			: N39 - 2030 - 46
W			: N19 - 1096 - 04

Parts with the exploded numbers larger than 700 are not supplied.

KRC-851D

EXPLODED VIEW(UNIT)


C
D
1
2
3
209
260
F I
230
201
F2
204
261
215
207
725
251
221
708
771
BASS TREBLE
780 (X89) (C/6)
VR7 VR8
774
CN19
780
BA1
(X89) (E/6)
729
726
729
231
F
L
717
(X08 -241)
772
(X89) (F/6)
780
770
ME I
762
232
203
212
780 (X89)(B/6)
780 (X89-1141)(A/6)
222
205
LCD I
711
728
H
773
706
N
780
248
Hx2
764 (X25-390)
781
718
(X89)(D/6)
253
234
282
TU I (W02-122)
VOL VR I
235
727
723
(X14-285)
763
252
210
237
236
250
249
247 238 239 240
241 242 243
244 245 246
233 233 233 233
N
TPC S2
716
214
G
220
213
702
M
KRC-851D

Ⓐ	ø 3x5		: N09 - 1203 - 05
Ⓑ	M 2.6x3.5		: N09 - 1492 - 05
Ⓒ	ø 2x5		: N09 - 1635 - 05
Ⓓ	ø 2.6x8		: N09 - 2584 - 05
Ⓔ	M 2.6x3		: N09 - 4002 - 05
F	WASHER		: N19 - 2002 - 05
G	M 2x4		: N30 - 2004 - 46
H	M 2.6x10		: N30 - 2610 - 46
J	M 3x8		: N30 - 3008 - 46
K	M 3x16		: N30 - 3016 - 46
L	ø 2x8	(F - Tap)	: N32 - 2008 - 45
M	ø 3x8	(Br - Tap)	: N87 - 3008 - 45
N	ø 2.6x5	(F - Tap)	: N88 - 2605 - 46
Ⓟ	ø 3x8		: N09 - 4003 - 05
Ⓠ	M 3x5		: N30 - 3005 - 46
Ⓡ	ø 2x6		: N09 - 1399 - 05
Ⓢ	ø 2x5		: N09 - 1635 - 05

Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

⁎ New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
				KRC-851D		
201	3D	*	A01-2508-21	METALLIC CABINET		
203	2C	*	A20-7551-03	PANEL ASSY		
204	1D	*	A52-0613-02	TOP PLATE		
205	2C	*	A53-1512-03	CASSETTE LID		
207	1C	*	B07-2014-12	ESCUTCHEON ASSY		
209	1D		B09-0062-05	CAP		
210	2C	*	B10-1343-03	FRONT GLASS		
-			B44-6005-04	UPC CODE LABEL	E	
-			B44-6006-04	UPC CODE LABEL		
-			B44-6007-04	UPC CODE LABEL		
-			B46-0100-20	WARRANTY CARD		
-			B46-0182-04	ID CARD	E	
-		*	B50-7948-00	INSTRUCTION MANUAL		
-			B58-0803-13	CAUTION CARD (210X148,DBP)		
-			B58-0871-04	CAUTION CARD (105X74,		
212	2D		D10-2525-04	LEVER		
213	3D	*	D10-2549-04	LEVER		
214	3D	*	D10-2550-04	LEVER		
215	1D	*	F01-1336-03	HEAT SINK		
F1	1C		F06-3026-05	FUSE (3A) (B.UP)		
F2	1C		F05-7521-05	FUSE (7.5A)(ACC)		
220	3D		G01-2040-04	EXTENSION SPRING		
221	1C		G01-2370-04	TORSION COIL SPRING		
222	2C		G01-2525-04	TORSION COIL SPRING		
-		*	H01-9095-04	ITEM CARTON CASE		
-		*	H03-3109-04	OUTER CARTON CASE		
-			H10-4322-03	POLYSTYRENE FOAMED FIXTURE		
-			H25-0329-04	PROTECTION BAG (280X450X0.03)		
-			H25-0336-04	PROTECTION BAG (170X250X0.03)		
230	1C		J54-0059-04	STAY		
231	2C		K01-0601-03	HANDLE		
232	2C	*	K23-1004-04	KNOB (TONE)		
233	3C	*	K24-0576-04	KNOB (CD-ME,AUTO,LO.S,SDK)		
234	2C	*	K24-0594-04	KNOB (CD)		
235	2C	*	K24-0595-04	KNOB (PROG)		
236	2C	*	K24-0596-04	KNOB (TUNE,PWR)		
237	2C	*	K24-0597-04	KNOB (EJECT)		
238	3C	*	K24-0599-03	KNOB (1.B/C)		
239	3C	*	K24-0600-03	KNOB (2.BS)		
240	3C	*	K24-0601-03	KNOB (3.TC)		
241	3C	*	K24-0602-03	KNOB (4.REP)		
242	3C	*	K24-0603-03	KNOB (5.SCN)		
243	3C	*	K24-0604-03	KNOB (6.DS)		
244	3C	*	K24-0605-03	KNOB (7.RD)		
245	3C	*	K24-0606-03	KNOB (8.MP)		
246	3C	*	K24-0607-03	KNOB (9)		
247	3C	*	K24-0608-03	KNOB (0)		
248	2C	*	K25-0532-03	KNOB (LOUD)		
249	2C	*	K25-0533-04	KNOB (FF.REW)		
250	2C	*	K25-0534-04	KNOB (FM.AM)		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
251	1C		K27-3510-04	KNOB (LEVER)		
252	2C		K29-5538-03	KNOB (VOL)		
253	2C		K29-5539-03	KNOB (FADER)		
260	1C		N99-0277-05	SCREW SET		
A			N09-1203-05	TAPTITE SCREW (3X5)		
B			N09-1492-05	MACHINE SCREW (2.6X3.5)		
C			N09-1635-05	TAPTITE SCREW (2X5)		
D			N09-2584-05	TAPTITE SCREW (2.6X8,+)		
E			N09-4002-05	STEPPED SCREW (M2.6X3)		
F		⁎	N19-2002-05	CORRUGATED WASHER		
G			N30-2004-46	PAN HEAD MACHINE SCREW		
H			N30-2610-46	PAN HEAD MACHINE SCREW		
J			N30-3008-46	PAN HEAD MACHINE SCREW		
K			N30-3016-46	PAN HEAD MACHINE SCREW		
L			N32-2008-45	FLAT HEAD MACHINE SCREW		
M			N87-3008-45	BRAZIER HEAD TAPTITE SCREW		
N			N88-2605-46	FLAT HEAD TAPTITE SCREW		
261	1C	⁎	W09-0715-04	DETACHBLE CONNECTOR		
BA1	2D		W09-0046-05	BATTERY		
ME1	2D	⁎	X92-1390-02	MECHANISM ASSY		
PREAMPLIFIER UNIT (X08-2412-70)						
C1 -4			CE04MW1C100M	ELECTRO 10UF 16WV		
C5 -8			CK73FB1H271K	CHIP C 271PF K		
C9 -14			CE04MW1E4R7M	ELECTRO 4.7UF 25WV		
C15		⁎	CE04MW0J221M	ELECTRO 220UF 6.3WV		
C16			CE04NW1H010M	ELECTOR 1.0UF 50WV		
C17 ,18			CC73FCH1H330J	CHIP C 33PF J		
C19			CE04NW1A101M	ELECTRO 100UF 10WV		
C20			CE04NW0J101M	ELECTRO 100UF 6.3WV		
C21 ,22			CK73FB1H822K	CHIP C 8200PF K		
C23			CK73FB1H221K	CHIP C 220PF K		
C24			CE04NW1HR47M	ELECTRO 0.47UF 50WV		
C25			CE04NW1H4R7M	ELECTRO 4.7UF 50WV		
C26			CE04NW0J220M	ELECTRO 22UF 6.3WV		
J1			R92-0670-05	CHIP R 0 OHM		
J2 -6			R92-0679-05	CHIP R 0 OHM		
R1 -4			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R5 -8			RK73FB2A101J	CHIP R 100 J 1/10W		
R9 -12			RK73FB2A133J	CHIP R 13K J 1/10W		
R13 -16			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R17 -20			RK73FB2A473J	CHIP R 47K J 1/10W		
R21 -24			RK73FB2A224J	CHIP R 220K J 1/10W		
R25			RK73FB2A100J	CHIP R 10 J 1/10W		
R26			RK73FB2A273J	CHIP R 27K J 1/10W		
R27			RK73EB2B473J	CHIP R 47K J 1/8W		
R28			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R29 -32			RK73EB2B562J	CHIP R 5.6K J 1/8W		
R33			RK73EB2B222J	CHIP R 2.2K J 1/8W		
R34			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R35			RK73FB2A101J	CHIP R 100 J 1/10W		
R36 ,37			RK73FB2A103J	CHIP R 10K J 1/10W		
R38 ,39			RK73FB2A333J	CHIP R 33K J 1/10W		
R40 -43			RK73FB2A472J	CHIP R 4.7K J 1/10W		

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R44			RK73FB2A683J	CHIP R 68K J 1/10W		
R45			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R46 -48			RK73FB2A473J	CHIP R 47K J 1/10W		
R49			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R50			RK73EB2B333J	CHIP R 33K J 1/8W		
VR1 ,2			R12-3100-05	TRIM POT. 10K (P /B)		
D1			DAP202K	DIODE		
D2			DAN202K	DIODE		
D3			DA204K	DIODE		
D4			SD184-1	DIODE		
IC1 ,2			NJM2068MD	IC		
IC3			UPD4066BC	IC(BILATERAL SWITCH X4)		
IC4		*	M5280FP	IC		
IC5			M5218FP	IC(OP AMP X2)		
IC6 ,7			NJM4565MD	IC(OP AMP X2)		
Q1 ,2			DTC124EK	DIGITAL TRANSISTOR		
Q3			2SC2412K	TRANSISTOR		
SUB-CIRCUIT UNIT (X13-6410-02)						
C1			CF92V1H224J	MF 0.22UF J		
S1	2B		S40-1140-05	PUSH SWITCH		
S3 ,4	3A		S46-1601-05	LEAF SWITCH		
PHOT1,2			T95-0201-05	OPTO ISOLATOR		
PHOT3			T95-0202-05	OPTO ISOLATOR		
SYNTHESIZER UNIT (X14-2852-70)						
C1 -4			CK73FB1H561K	CHIP C 560PF K		
C5 -7			CE04CW1C220M	ELECTRO 22UF 16WV		
C8 ,9			CK73FB1H103K	CHIP C 0.010UF K		
C10			CE04NW1A221M	ELECTRO 220UF 10WV		
C11 ,12		*	C90-2536-05	ELECTRO 10UF 16WV		
C13			CE04CW1H4R7M	ELECTRO 4.7UF 50WV		
C14 ,15			CK73FB1H153K	CHIP C 0.015UF K		
C16 ,17			CK73FB1H102K	CHIP C 1000PF K		
C18 ,19		*	C90-2535-05	ELECTRO 4.7UF 16WV		
C20 -23			CK73FB1H331K	CHIP C 330PF K		
C24 -27		*	C93-1016-05	CERAMIC 2200PF 50WV		
C28 ,29		*	C92-1009-05	TANTAL 560PF 20WV		
C30 ,31			C92-0502-05	CHIP-TAN 0.33UF 35WV		
C32			CE04CW1A330M	ELECTRO 33UF 10WV		
C33			CE04CW1H4R7M	ELECTRO 4.7UF 50WV		
C34			CE04CW1E100M	ELECTRO 10UF 25WV		
C35			CE04MW0J470M	ELECTRO 47UF 6.3WV		
C36			CE04MW1C100M	ELECTRO 10UF 16WV		
C37 ,38		*	C90-2535-05	ELECTRO 4.7UF 16WV		
C39 ,40			CE04NW1H010M	ELECTOR 1.0UF 50WV		
C41 ,42			CE04MW1E4R7M	ELECTRO 4.7UF 25WV		
C43 ,44		*	C90-2526-05	ELECTRO 3.3UF 35WV		
C45 ,46		*	C90-2527-05	ELECTRO 33UF 10WV		
C47			CE04NW0J221M	ELECTRO 220UF 6.3WV		
C48 ,49			CK73FB1H272K	CHIP C 2700PF K		
C50 -52			CK73FB1H103K	CHIP C 0.010UF K		
C64			CK73EB1H683K	CHIP C 0.068UF K		
C65 ,66			CK73FB1H222K	CHIP C 2200PF K		

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C69		*	C90-2525-05	ELECTRO 2.2UF 35WV		
C70			CK73EB1H683K	CHIP C 0.068UF K		
C71 ,72		*	C90-2537-05	ELECTRO 2200UF 16WV		
C73 ,74			CK73FB1H103K	CHIP C 0.010UF K		
C75			CE04DW1A101M	ELECTRO 100UF 10WV		
C76			CE04DW1A221M	ELECTRO 220UF 10WV		
C77 -80			CK73FB1H103K	CHIP C 0.010UF K		
C81			CE04CW1A330M	ELECTRO 33UF 10WV		
C82 -84			CK73FB1H103K	CHIP C 0.010UF K		
C85			CE04CW1A330M	ELECTRO 33UF 10WV		
C86			CK73FB1H103K	CHIP C 0.010UF K		
C87			CE04CW1C220M	ELECTRO 22UF 16WV		
C88			C93-0025-05	CERAMIC 0.22UF K		
C89 -91			CK73FB1H103K	CHIP C 0.010UF K		
C92 ,93			CC73FCH1H270J	CHIP C 27PF J		
C95			CK73EB1E104K	CHIP C 0.10UF K		
C96			CE04CW1H3R3M	ELECTRO 3.3UF 50WV		
C97 ,98			CK73EB1H683K	CHIP C 0.068UF K		
C99			C93-0025-05	CERAMIC 0.22UF K		
C100,101			CK73FB1H103K	CHIP C 0.010UF K		
C102			C93-0025-05	CERAMIC 0.22UF K		
C103			CK73FB1H103K	CHIP C 0.010UF K		
C105			CE04NW1C100M	ELECTRO 10UF 16WV		
C106			CE04CW1E100M	ELECTRO 10UF 25WV		
C107			CK73FB1H103K	CHIP C 0.010UF K		
C108			C90-1263-05	ELECTRO 100UF 16WV		
C110			CK73FB1H103K	CHIP C 0.010UF K		
C111			CE04NW1HR22M	ELECTRO 0.22UF 50WV		
C112			CK73EB1H563K	CHIP C 0.056UF K		
C113			CC73FCH1H330J	CHIP C 33PF J		
C114			CK73FB1H102K	CHIP C 1000PF K		
C115			CK73FB1H103K	CHIP C 0.010UF K		
C117			CE04NW1H2R2M	ELECTRO 2.2UF 50WV		
C118			CE04CW1A101M	ELECTRO 100UF 10WV		
C119			CE04NW1C101M	ELECTRO 100UF 16WV		
C120			CE04NW1HR47M	ELECTRO 0.47UF 50WV		
C121			CE04NW1C100M	ELECTRO 10UF 16WV		
C122,123			C93-0025-05	CERAMIC 0.22UF K		
C124-127			CK73FB1H103K	CHIP C 0.010UF K		
C128			C92-0005-05	CHIP-TAN 2.2UF 6.3WV		
C129			C92-0004-05	CHIP-TAN 1.0UF 16WV		
C132			CK73FB1H103K	CHIP C 0.010UF K		
C139			CK73EB1H683K	CHIP C 0.068UF K		
C140			CK73FB1H103K	CHIP C 0.010UF K		
C141			CE04CW1E100M	ELECTRO 10UF 25WV		
C142			C92-0004-05	CHIP-TAN 1.0UF 16WV		
C143			CE04NW1E4R7M	ELECTRO 4.7UF 25WV		
C144			C93-0025-05	CERAMIC 0.22UF K		
C145			C92-0005-05	CHIP-TAN 2.2UF 6.3WV		
C146			C92-0004-05	CHIP-TAN 1.0UF 16WV		
C147			CE04CW1E100M	ELECTRO 10UF 25WV		
C148			CK73FB1H103K	CHIP C 0.010UF K		
C150			CK73FB1H103K	CHIP C 0.010UF K		
C152			C92-0004-05	CHIP-TAN 1.0UF 16WV		
C154,155			CK73FB1H331K	CHIP C 330PF K		

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L1 -3			L40-4791-17	SMALL FIXED INDUCTOR(4.7UH,K)		
L4			L40-1011-17	SMALL FIXED INDUCTOR		
X1			L77-1166-05	CRYSTAL RESONATOR		
X3			L78-0267-05	RESONATOR (4.19MHZ)		
A			N09-1203-05	TAPTITE SCREW (3X5)		
P			N09-4003-05	TAPTITE SCREW (3X8)		
Q			N30-3005-46	PAN HEAD MACHINE SCREW		
J4 ,5			R92-0679-05	CHIP R 0 OHM		
J6 -9			R92-0670-05	CHIP R 0 OHM		
J12 -15			R92-0670-05	CHIP R 0 OHM		
J18			R92-0679-05	CHIP R 0 OHM		
J22 ,23			R92-0679-05	CHIP R 0 OHM		
R1 -4			RK73FB2A223J	CHIP R 22K J 1/10W		
R5 ,6			RK73FB2A181J	CHIP R 180 J 1/10W		
R7 ,8			RK73FB2A203J	CHIP R 20K J 1/10W		
R9 ,10			RK73FB2A153J	CHIP R 15K J 1/10W		
R11 ,12			RK73FB2A334J	CHIP R 330K J 1/10W		
R13 ,14			RK73FB2A223J	CHIP R 22K J 1/10W		
R16 ,17			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R18 ,19			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R20 ,21			RK73FB2A473J	CHIP R 47K J 1/10W		
R22 ,23			RK73FB2A223J	CHIP R 22K J 1/10W		
R24 ,25			RK73FB2A103J	CHIP R 10K J 1/10W		
R26 -29			RK73FB2A183J	CHIP R 18K J 1/10W		
R30 ,31			RK73FB2A243J	CHIP R 24K J 1/10W		
R32 ,33			RK73FB2A561J	CHIP R 560 J 1/10W		
R34			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R35			RK73FB2A273J	CHIP R 27K J 1/10W		
R36			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R37 ,38			RK73FB2A820J	CHIP R 82 J 1/10W		
R39 ,40			RK73FB2A681J	CHIP R 680 J 1/10W		
R41 -52			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R61 ,62			RK73FB2A333J	CHIP R 33K J 1/10W		
R63 ,64			RK73FB2A622J	CHIP R 6.2K J 1/10W		
R65 ,66			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R69 ,70			RK73EB2B100J	CHIP R 10 J 1/8W		
R71 ,72			RK73FB2A683J	CHIP R 68K J 1/10W		
R77			RK73FB2A333J	CHIP R 33K J 1/10W		
R78			RK73FB2A183J	CHIP R 18K J 1/10W		
R79			RK73FB2A331J	CHIP R 330 J 1/10W		
R81 ,82			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R83			RK73FB2A331J	CHIP R 330 J 1/10W		
R84			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R85			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R86 -88			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R89 ,90			RK73FB2A103J	CHIP R 10K J 1/10W		
R91			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R92			RK73FB2A2R2J	CHIP R 2.2 J 1/10W		
R93			RK73FB2A103J	CHIP R 10K J 1/10W		
R94			RK73FB2A153J	CHIP R 15K J 1/10W		
R95			RK73FB2A333J	CHIP R 33K J 1/10W		
R96 ,97			RK73FB2A473J	CHIP R 47K J 1/10W		
R98			RK73FB2A103J	CHIP R 10K J 1/10W		
R99 -101			RK73FB2A473J	CHIP R 47K J 1/10W		

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R102			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R103			RK73FB2A101J	CHIP R 100 J 1/10W		
R104			RK73FB2A473J	CHIP R 47K J 1/10W		
R105			RK73FB2A104J	CHIP R 100K J 1/10W		
R106-108			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R109,110			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R111,112			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R113			RK73FB2A223J	CHIP R 22K J 1/10W		
R114			RK73FB2A104J	CHIP R 100K J 1/10W		
R115			RK73FB2A103J	CHIP R 10K J 1/10W		
R116-119			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R120			RK73FB2A473J	CHIP R 47K J 1/10W		
R122			RK73FB2A473J	CHIP R 47K J 1/10W		
R124			RK73FB2A473J	CHIP R 47K J 1/10W		
R128		*	R92-0365-05	CHIP R 1K J 1/2W		
R129		*	R92-0366-05	CHIP R 560 J 1W		
R130-132			RK73FB2A223J	CHIP R 22K J 1/10W		
R133			RK73FB2A103J	CHIP R 10K J 1/10W		
R134			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R135,136			RK73FB2A473J	CHIP R 47K J 1/10W		
R137			RK73FB2A103J	CHIP R 10K J 1/10W		
R138			RK73FB2A473J	CHIP R 47K J 1/10W		
R139			RK73FB2A103J	CHIP R 10K J 1/10W		
R140,141			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R142			RK73FB2A101J	CHIP R 100 J 1/10W		
R143			RK73FB2A103J	CHIP R 10K J 1/10W		
R144,145			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R146			RK73FB2A101J	CHIP R 100 J 1/10W		
R147			RK73FB2A103J	CHIP R 10K J 1/10W		
R148			RK73FB2A101J	CHIP R 100 J 1/10W		
R149			RK73FB2A103J	CHIP R 10K J 1/10W		
R150,151			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R152-154			RK73FB2A103J	CHIP R 10K J 1/10W		
R155			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R156,157			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R158			RK73FB2A103J	CHIP R 10K J 1/10W		
R159			RK73FB2A473J	CHIP R 47K J 1/10W		
R160			RK73FB2A104J	CHIP R 100K J 1/10W		
R161			RK73FB2A103J	CHIP R 10K J 1/10W		
R162			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R163			RK73FB2A103J	CHIP R 10K J 1/10W		
R164			RK73EB2B2R2J	CHIP R 2.2 J 1/8W		
R165			RK73FB2A103J	CHIP R 10K J 1/10W		
R166			RK73FB2A224J	CHIP R 220K J 1/10W		
R167			RK73FB2A334J	CHIP R 330K J 1/10W		
R168			RK73FB2A183J	CHIP R 18K J 1/10W		
R169			RK73FB2A333J	CHIP R 33K J 1/10W		
R170			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R171			RK73FB2A101J	CHIP R 100 J 1/10W		
R172,173			RK73FB2A223J	CHIP R 22K J 1/10W		
R174			RK73FB2A473J	CHIP R 47K J 1/10W		
R175			RK73FB2A334J	CHIP R 330K J 1/10W		
R176			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R177-179			RK73FB2A103J	CHIP R 10K J 1/10W		
R180			RK73FB2A104J	CHIP R 100K J 1/10W		

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R181		*	R92-2023-05	CHIP R 820 J 1/2W		
R182			RK73FB2A331J	CHIP R 330 J 1/10W		
R183			RK73FB2A103J	CHIP R 10K J 1/10W		
R184			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R185			RS14KB3D330J	FL-PROOF RS 33 J 2W		
R186			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R187			RK73FB2A104J	CHIP R 100K J 1/10W		
R188			RK73FB2A101J	CHIP R 100 J 1/10W		
R189,190			RK73FB2A103J	CHIP R 10K J 1/10W		
R191			RK73FB2A104J	CHIP R 100K J 1/10W		
R192			RK73FB2A224J	CHIP R 220K J 1/10W		
R193-204			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R205-208			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R210			RK73FB2A473J	CHIP R 47K J 1/10W		
R211			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R212-217			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R218			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R219-223			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R224,225			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R226-233			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R234			RK73FB2A473J	CHIP R 47K J 1/10W		
R236			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R237			RK73FB2A473J	CHIP R 47K J 1/10W		
R238-245			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R246			RK73FB2A473J	CHIP R 47K J 1/10W		
R247		*	R92-2014-05	CHIP R 22 J 1W		
R248		*	R92-2015-05	CHIP R 33 J 1W		
R249,250			RK73FB2A103J	CHIP R 10K J 1/10W		
R251,252			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R253			RK73FB2A152J	CHIP R 1.5K J 1/10W		
R254			RK73FB2A104J	CHIP R 100K J 1/10W		
R255,256			RK73FB2A103J	CHIP R 10K J 1/10W		
R257,258			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R259		*	R92-2021-05	CHIP R 2.2 J 1/2W		
R260			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R261			RK73FB2A103J	CHIP R 10K J 1/10W		
R262			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R263		*	R92-2023-05	CHIP R 820 J 1/2W		
R264			RK73FB2A104J	CHIP R 100K J 1/10W		
R265			RK73FB2A103J	CHIP R 10K J 1/10W		
R266,267			RK73FB2A104J	CHIP R 100K J 1/10W		
R268			RK73FB2A431J	CHIP R 430 J 1/10W		
R292			RK73FB2A101J	CHIP R 100 J 1/10W		
R293			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R294			RK73FB2A273J	CHIP R 27K J 1/10W		
R295			RK73EB2B181J	CHIP R 180 J 1/8W		
R296,297			RK73FB2A223J	CHIP R 22K J 1/10W		
R298			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R299,300			RK73FB2A473J	CHIP R 47K J 1/10W		
R301,302			RK73FB2A223J	CHIP R 22K J 1/10W		
R303			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R304			RK73FB2A223J	CHIP R 22K J 1/10W		
R305			RK73FB2A103J	CHIP R 10K J 1/10W		
R306			RK73FB2A512J	CHIP R 5.1K J 1/10W		
R307			RK73FB2A104J	CHIP R 100K J 1/10W		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti-nation 仕向	Re-marks 備考
R308			RK73FB2A622J	CHIP R 6.2K J 1/10W		
R309			RK73FB2A103J	CHIP R 10K J 1/10W		
R310			RK73FB2A473J	CHIP R 47K J 1/10W		
R311			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R315			RK73FB2A473J	CHIP R 47K J 1/10W		
R316,317			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R318			RK73FB2A103J	CHIP R 10K J 1/10W		
R319			RK73FB2A223J	CHIP R 22K J 1/10W		
R320			RK73FB2A471J	CHIP R 470 J 1/10W		
R321			RK73FB2A103J	CHIP R 10K J 1/10W		
R323			RK73FB2A471J	CHIP R 470 J 1/10W		
VR1		*	R24-3636-05	POTENTIOMETER(20K)(VOL)		
VR2		*	R12-3188-05	TRIMMING POT. (AM STOP)		
S2			S40-1140-05	PUSH SWITCH (TPC)		
D1			MA110	DIODE		
D1			1SS332	DIODE		
D2			DAP202K	DIODE		
D3			ERA15-01Y1	DIODE		
D4			DSM1A1	DIODE		
D5			RD9.1JS(B2)	ZENER DIODE		
D6 ,7			MA110	DIODE		
D6 ,7			1SS332	DIODE		
D9 -11			MA110	DIODE		
D9 -11			1SS332	DIODE		
D12			DAN202K	DIODE		
D13 -15			MA110	DIODE		
D13 -15			1SS332	DIODE		
D16			DA204K	DIODE		
D17			RD5.1JS(B2)	ZENER DIODE		
D18 ,19			MA110	DIODE		
D18 ,19			1SS332	DIODE		
D20		*	MA8051-M	ZENER DIODE		
D21			DA204K	DIODE		
D22			DAN202K	DIODE		
D23 ,24			DSM1A1	DIODE		
D25		*	MA8056-M	ZENER DIODE		
D26		*	MA8091-M	ZENER DIODE		
D27 -30			MA110	DIODE		
D27 -30			1SS332	DIODE		
D31			DAP202K	DIODE		
D32 ,33			MA110	DIODE		
D32 ,33			1SS332	DIODE		
D34			DAN202K	DIODE		
D35		*	MA8110-M	ZENER DIODE		
D36			ERA15-01Y1	DIODE		
D37			DAN202K	DIODE		
D38 -41			MA110	DIODE		
D38 -41			1SS332	DIODE		
D42		*	MA8110-M	ZENER DIODE		
D43			MA110	DIODE		
D43			1SS332	DIODE		
D44			DAN202K	DIODE		
D45 -48			MA110	DIODE		
D45 -48			1SS332	DIODE		

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IC1			TA7705F	IC(PREAMP FOR AUTO REVERSE)		
IC2		*	CXA1332M	IC (DOLBY)		
IC3			M5219FP	IC (1/2 VCC BUFF)		
IC4			TA8221H	IC (PWR AMP)		
IC6		*	LC7218M	IC (PLL)		
IC7			TC74HC04AF	IC(INVERTER)		
IC7			UPD74HC04G	IC(HEX INVERTER))		
IC8			PST529F-MT	IC		
IC9			PST529D-MT	IC(CONTROL)		
IC10		*	NJM4565M	IC (TAPE ADV)		
IC11			TA7291P	IC (SUB MOTOR DRIVE)		
IC12		*	75116GF-616-3BE	IC (MICROPROCESSOR)		
IC14			M5237L	IC (AVR)		
IC15			PST529D-MT	IC(CONTROL)		
Q1 -10			2SD1757K	TRANSISTOR		
Q11 ,12			2SC2412K	TRANSISTOR		
Q13			DTC144EK	DIGITAL TRANSISTOR		
Q14			2SK669	FET		
Q15 ,16			2SB822F(Q,R)	TRANSISTOR		
Q17 ,18			DTA144EK	DIGITAL TRANSISTOR		
Q19			DTC144EK	DIGITAL TRANSISTOR		
Q20			DTA144EK	DIGITAL TRANSISTOR		
Q21 -23			2SC2412K	TRANSISTOR		
Q24			DTA114EK	DIGITAL TRANSISTOR		
Q25 ,26			2SA1037K	TRANSISTOR		
Q27			2SB822F(Q,R)	TRANSISTOR		
Q28			2SC2412K	TRANSISTOR		
Q31 -33			DTC124EK	DIGITAL TRANSISTOR		
Q34 -36			DTC144EK	DIGITAL TRANSISTOR		
Q37 ,38			2SC2412K	TRANSISTOR		
Q39			DTC143TK	DIGITAL TRANSISTOR		
Q40			DTB123YK	DIGITAL TRANSISTOR		
Q41			DTC144EK	DIGITAL TRANSISTOR		
Q42			2SA1428(O,Y)	TRANSISTOR		
Q43			2SC2412K	TRANSISTOR		
Q44 -46			DTC144EK	DIGITAL TRANSISTOR		
Q47			2SA1357	TRANSISTOR		
Q48			2SC2412K	TRANSISTOR		
Q49			DTC124EK	DIGITAL TRANSISTOR		
Q50			DTC144EK	DIGITAL TRANSISTOR		
Q51			DTA144EK	DIGITAL TRANSISTOR		
Q52 ,53			2SC2412K	TRANSISTOR		
Q54 ,55			2SD1055F	TRANSISTOR		
Q56 ,57			DTC144EK	DIGITAL TRANSISTOR		
Q58 ,59			2SB822F(Q,R)	TRANSISTOR		
Q60			DTC144EK	DIGITAL TRANSISTOR		
Q61			DTA114EK	DIGITAL TRANSISTOR		
Q62			2SB1015LB	TRANSISTOR		
Q63			2SC2412K	TRANSISTOR		
Q64			2SA1428(O,Y)	TRANSISTOR		
Q65			DTC144EK	DIGITAL TRANSISTOR		
Q80 ,81			DTA114EK	DIGITAL TRANSISTOR		
Q82			2SB1015LB	TRANSISTOR		
Q83			2SA1037K	TRANSISTOR		
Q84			2SC2412K	TRANSISTOR		

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Q85 ,86			2SA1037K	TRANSISTOR		
Q87 ,88			DTC144EK	DIGITAL TRANSISTOR		
Q89			DTA144EK	DIGITAL TRANSISTOR		
Q90			2SC2412K	TRANSISTOR		
Q91			DTC144EK	DIGITAL TRANSISTOR		
Q92			DTA144EK	DIGITAL TRANSISTOR		
TU1	3D	*	W02-1225-05	TUNER ASSY		
SWITCH UNIT (X25-3902-70)						
-		*	B11-0808-04	OPTICAL DIFFUSER		
-		*	B19-0827-03	LIGHTING BOARD		
D1 ,2			B30-1208-05	LED		
LCD1	2C	*	B38-0514-05	LIQUID CRYSTAL		
PL1			B30-1204-05	LAMP		
PL2			B30-1187-05	LAMP (6V 0.155A)		
PL3			B30-1204-05	LAMP		
PL4			B30-1187-05	LAMP (6V 0.155A)		
PL5			B30-1306-05	LAMP (5.5V .125A)		
PL6			B30-1305-05	LAMP (5.5V .125A)		
PL7			B30-1306-05	LAMP (5.5V .125A)		
PL8			B30-1305-05	LAMP (5.5V .125A)		
C1			CK73FB1H103K	CHIP C 0.010UF K		
C2			CK73FB1H681K	CHIP C 680PF K		
-		*	E29-1319-04	CONDUCTIVE RUBBER		
282	2C	*	J25-7081-02	PRINTED WIRING BOARD(FPC)		
R			N09-1399-05	TAPTITE SCREW (M2X6		
R1			RK73FB2A513J	CHIP R 51K J 1/10W		
R2 ,3			RK73FB2A241J	CHIP R 240 J 1/10W		
R4 -9			RK73FB2A331J	CHIP R 330 J 1/10W		
S1 ,2		*	S40-1607-05	PUSH SWITCH		
S3 -6			S40-1096-05	PUSH SWITCH		
S7 -24		*	S40-1606-05	PUSH SWITCH		
IC1			LC7582A	IC(LCD DRIVER)		
DAUGHTER UNIT (X89-1142-70)						
C1			CK73FB1H271K	CHIP C 271PF K		
C2			CE04NW1HR47M	ELECTRO 0.47UF 50WV		
C3			CE04NW1A330M	ELECTRO 33UF 10WV		
C4			C92-0003-05	CHIP-TAN 0.47UF 25WV		
C5			CK73FB1H221K	CHIP C 220PF K		
C6 -11			CK73FB1H223K	CHIP C 0.022UF K		
C12			CK73FB1H103K	CHIP C 0.010UF K		
C13 ,14			CK73FB1H223K	CHIP C 0.022UF K		
C15 ,16			CE04NW1E4R7M	ELECTRO 4.7UF 25WV		
C17			CE04NW1H010M	ELECTOR 1.0UF 50WV		
C18			CK73FB1E473K	CHIP C 0.047UF K		
C19			CK73FB1H102K	CHIP C 1000PF K		
C20			CK73FB1H103K	CHIP C 0.010UF K		
C21			C92-0502-05	CHIP-TAN 0.33UF 35WV		
C22			C92-0005-05	CHIP-TAN 2.2UF 6.3WV		
C23			CK73FB1H332K	CHIP C 3300PF K		

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C24 ,25			CK73FB1E473K	CHIP C 0.047UF K		
C26			C92-0001-05	CHIP-TAN 0.1UF 35WV		
C27			CK73FB1H332K	CHIP C 3300PF K		
C28			CK73FB1H103K	CHIP C 0.010UF K		
C29			CK73FB1H562K	CHIP C 5600PF K		
C30			C92-0507-05	CHIP-TAN 4.7UF 6.3WV		
C31			CE04NW1A330M	ELECTRO 33UF 10WV		
C32			CK73FB1H682K	CHIP C 6800PF K		
C33			CE04NW1HR22M	ELECTRO 0.22UF 50WV		
C34			CQ92P2A391J	MYLAR 390PF J		
C35			CE04NW1HR22M	ELECTRO 0.22UF 50WV		
C36			CE04NW1H0R1M	ELECTRO 0.1UF 50WV		
C37			CE04NW1HR22M	ELECTRO 0.22UF 50WV		
C38			CQ93AP2A332J	POLYPRO 3300PF J		
C39 ,40			CF92V1H683J	MF 0.068UF J		
C41			CE04NW1E4R7M	ELECTRO 4.7UF 25WV		
C42			CC73FCH1H560J	CHIP C 56PF J		
C43			CK73DB1H154K	CHIP C 0.15UF K		
C44			CF92V1H104J	MF 0.10UF J		
C45			CK73FB1H103K	CHIP C 0.010UF K		
C46 -49			CF92V1H683J	MF 0.068UF J		
C50			CE04NW1A330M	ELECTRO 33UF 10WV		
C51			CK73FB1H103K	CHIP C 0.010UF K		
C52			CK73FB1H223K	CHIP C 0.022UF K		
C61 -64		*	C90-2536-05	ELECTRO 10UF 16WV		
C65 -68			CF92FV1H182J	MF 1800PF J		
C69 ,70			CF92FV1H223J	MF 0.022UF J		
C71 ,72			CC73FCH1H470J	CHIP C 47PF J		
C73 ,74			CK73FB1H103K	CHIP C 0.010UF K		
C81 -84			CK73EB1E104K	CHIP C 0.10UF K		
C91 ,92			CK73EB1H223K	CHIP C 0.022UF K		
C93 ,94			CK73EB1H473K	CHIP C 0.047UF K		
C96 ,97			CK73FB1H223K	CHIP C 0.022UF K		
CN19	2D	*	E08-4001-05	RECTANGULAR RECEPTACLE		
CF1 ,2			L72-0701-05	CERAMIC FILTER		
L1 ,2			L40-4791-17	SMALL FIXED INDUCTOR(4.7UH,K)		
L3			L39-0156-05	TRAP COIL		
T1			L30-0462-15	FM IFT		
S			N09-1635-05	TAPTITE SCREW (2X5)		
J11 -13			R92-0670-05	CHIP R 0 OHM		
J14 -19			R92-0679-05	CHIP R 0 OHM		
J22 ,23			R92-0670-05	CHIP R 0 OHM		
J24 -26			R92-0679-05	CHIP R 0 OHM		
J27			R92-0670-05	CHIP R 0 OHM		
R1			RK73FB2A563J	CHIP R 56K J 1/10W		
R2			RK73FB2A473J	CHIP R 47K J 1/10W		
R3			RK73FB2A123J	CHIP R 12K J 1/10W		
R4			RK73FB2A103J	CHIP R 10K J 1/10W		
R5			RK73FB2A101J	CHIP R 100 J 1/10W		
R6			RK73FB2A112J	CHIP R 1.1K J 1/10W		
R7			RK73FB2A561J	CHIP R 560 J 1/10W		
R8			RK73FB2A331J	CHIP R 330 J 1/10W		
R9			RK73FB2A131J	CHIP R 130 J 1/10W		

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R10			RK73FB2A181J	CHIP R 180 J 1/10W		
R12			RK73FB2A331J	CHIP R 330 J 1/10W		
R13			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R14			RK73FB2A223J	CHIP R 22K J 1/10W		
R15			RK73FB2A103J	CHIP R 10K J 1/10W		
R16			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R17			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R18			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R19			RK73FB2A103J	CHIP R 10K J 1/10W		
R20			RK73FB2A114J	CHIP R 110K J 1/10W		
R21			RK73FB2A154J	CHIP R 150K J 1/10W		
R22			RK73FB2A473J	CHIP R 47K J 1/10W		
R23			RK73FB2A152J	CHIP R 1.5K J 1/10W		
R24			RK73FB2A224J	CHIP R 220K J 1/10W		
R25			RK73FB2A752J	CHIP R 7.5K J 1/10W		
R26			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R27			RK73FB2A104J	CHIP R 100K J 1/10W		
R28			RK73FB2A473J	CHIP R 47K J 1/10W		
R29			RK73FB2A101J	CHIP R 100 J 1/10W		
R30			RK73FB2A123J	CHIP R 12K J 1/10W		
R31			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R32			RK73FB2A473J	CHIP R 47K J 1/10W		
R33			RK73FB2A431J	CHIP R 430 J 1/10W		
R34			RK73FB2A684J	CHIP R 680K J 1/10W		
R35			RK73FB2A683J	CHIP R 68K J 1/10W		
R36			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R37			RK73FB2A104J	CHIP R 100K J 1/10W		
R38			RK73FB2A224J	CHIP R 220K J 1/10W		
R39			RK73FB2A123J	CHIP R 12K J 1/10W		
R40			RK73EB2B333J	CHIP R 33K J 1/8W		
R41			RK73FB2A244J	CHIP R 240K J 1/10W		
R42			RK73FB2A564J	CHIP R 560K J 1/10W		
R43			RK73FB2A273J	CHIP R 27K J 1/10W		
R44			RK73FB2A563J	CHIP R 56K J 1/10W		
R45			RK73FB2A220J	CHIP R 22 J 1/10W		
R61 ,62			RK73EB2B822J	CHIP R 8.2K J 1/8W		
R63 ,64			RK73EB2B183J	CHIP R 18K J 1/8W		
R65 ,66			RK73EB2B101J	CHIP R 100 J 1/8W		
R67 ,68			RK73EB2B822J	CHIP R 8.2K J 1/8W		
R69 ,70			RK73EB2B183J	CHIP R 18K J 1/8W		
R71 ,72			RK73EB2B103J	CHIP R 10K J 1/8W		
R73 ,74		*	RK73EB2B361J	CHIP R 360 J 1/8W		
R75			RK73FB2A512J	CHIP R 5.1K J 1/10W		
R76			RK73FB2A622J	CHIP R 6.2K J 1/10W		
R81 -84			RK73EB2B2R2J	CHIP R 2.2 J 1/8W		
R91 ,92			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R93 ,94			RK73EB2B152J	CHIP R 1.5K J 1/8W		
R95			RK73EB2B472J	CHIP R 4.7K J 1/8W		
VR1			R12-3127-05	TRIMMING POT.(10K) (STOP)		
VR2			R12-3072-05	TRIMMING POT.(22K) (ANRC)		
VR3			R12-3133-05	TRIM POT. 47K		
VR4			R12-1063-05	TRIMMING POT.(2.2K) (SEP.)		
VR5			R12-1090-05	TRIM POT. 4.7K		
VR6		*	R12-0105-05	TRIM POT. 220		
VR7 ,8		*	R10-4641-05	POTENTIOMETER(50KX2) (TONE)		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti-nation 仕向	Re-marks 備考
D1		*	MA8110-M	ZENER DIODE		
D2			S5566B	DIODE		
D2			1SR139-100	DIODE		
IC1			LA1140	IC(FM IF/DETECTION)		
IC2			AN7465K	IC		
IC3			TDA1579	IC(DECODER)		
IC4			NJM4565L	IC		
IC5			NJM5532D-D	IC(OP AMP X2)		
IC6			PST529D-MT	IC(CONTROL)ESET)		
Q1			2SC2413K	TRANSISTOR		
Q2 -4			2SC2412K	TRANSISTOR		
Q5			DTC124EK	DIGITAL TRANSISTOR		
MECHANISM ASS'Y (X92-1390-02)						
7	2A		B09-0504-14	CAP (REEL CAP)		
8	3A	*	D01-0601-13	FLYWHEEL ASSY (FLYWHEEL)		
14	1A		D10-2505-03	ARM ASSY (ACTION PLATE ASSY)		
16	1B	*	D10-2507-23	ARM ASSY (LOUD ARM ASSY)		
21	1B	*	D10-2512-13	ARM (ACTION ARM)		
24	3A		D10-2515-14	ARM ASSY (FR ARM ASSY)		
26	3B	*	D10-2517-43	LEVER (FR REW PLATE)		
27	2B	*	D10-2518-33	LEVER (PROGRAM PLATE)		
28	1B		D10-2519-04	ARM ASSY (DOOR ARM ASSY)		
30	1B		D10-2521-04	LEVER (DOOR LEVER)		
31	2A		D13-1001-04	GEAR ASSY(REEL GEAR ASSY)		
34	3A	*	D13-1004-14	GEAR ASSY(FR GEAR ASSY)		
37	2B	*	D13-1007-24	GEAR (SUB MOTOR GEAR)		
38	1B	*	D13-1008-34	GEAR ASSY(LOUD GEAR ASSY)		
40	1B	*	D13-1010-14	GEAR (IDOL GEAR 1)		
41	1B		D13-1011-04	GEAR (IDOL GEAR 2)		
42	1B		D13-1012-04	GEAR (IDOL GEAR 3)		
43	1B	*	D13-1013-13	GEAR (MODE GEAR 1)		
44	3A	*	D13-1015-14	GEAR (TAKE UP GEAR)		
45	2B	*	D13-1016-23	GEAR (MODE GRAR 2)		
46	1B		D14-0601-13	PINCH ROLLER ASSY (F)		
48	1A		D14-0603-13	PINCH ROLLER ASSY (R)		
49	2B		D14-0604-04	ROLLER (PROGRAM PLATE ROLLER)		
50	3B		D14-0605-04	ROLLER (ROLLER 1)		
51	2A		D14-0606-04	ROLLER (ROLLER 2)		
53	2A		D15-0901-04	PULLEY (MAIN MOTOR PULLEY)		
54	3B	*	D15-0902-24	PULLEY (IDOL PULLEY)		
55	3A		D16-0601-04	BELT		
72	2A		D21-2018-04	SHAFT ASSY (CAPSTAN)		
80	2A		G01-2502-14	COMPRESSION SPRING (REEL CAP)		
82	1A	*	G01-2504-14	COMPRESSION SPRING (AZIMUTH)		
83	3A		G01-2505-14	EXTENSION SPRING (TAKE UP SP)		
84	1B		G01-2506-14	EXTENSION SPRING (LOUDING ARM)		
86	2A		G01-2508-24	TORSION COIL SPRING(METAL SENS		
87	1B		G01-2509-14	TORSION COIL SPRING		
88	2B	*	G01-2510-24	TORSION COIL SPRING(MODE PLATE		
89	1B		G01-2511-14	EXTENSION SPRING (DOOR ARM SP)		
90	1A		G02-1106-14	FLAT SPRING (PLAYBACK HEAD)		
91	1A		G09-2001-24	FORMED WIRE (PINCH ROLLER SP		
92	1B		G09-2002-14	FORMED WIRE (DOOR BAR)		

E: Scandinavia & Europe K: USA P: Canada
U: PX(Far East, Hawaii) T: England M: Other Areas
UE : AAFES(Europe) X: Australia

⚠ indicates safety critical components.

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PARTS LIST

⁎ New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Telle ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
101	1A		J19-4302-32	HOLDER (PACK SLIDER)		
103	2B		J19-4304-03	BRACKET (SUB MOTOR PLATE		
104	2A		J19-4305-03	BRACKET (ACTION PLATE)		
105	1A	*	J19-4318-34	HOLDER ASSY		
110	1A		J90-0701-03	GUIDE (TAPE GUIDE)		
A	1A		N09-4009-05	SEMS (MACHINE SCREW)(M2X5)		
C	1A		N09-4005-05	MACHINE SCREW (M2)		
D	2B		N09-4006-05	MACHINE SCREW (M1.7)		
E	1A		N09-4022-05	MACHINE SCREW (2X6)		
F	2B		N09-4008-05	MACHINE SCREW (M2X2)		
G	3A		N39-2022-46	PAN HEAD MACHINE SCREW		
H	1B,2B		N35-2003-46	BINDING HEAD MACHINE SCREW		
J	2A,2B		N86-2004-46	BINDING HEAD TAPTITE SCREW		
K	2A,3B		N19-2003-04	FLAT WASHER		
L	1B,2A		N19-2004-04	FLAT WASHER		
M	3B		N19-2005-04	FLAT WASHER		
N	2A		N19-2006-04	FLAT WASHER		
P	2B		N19-2008-04	FLAT WASHER		
Q	2A,3A		N19-0373-04	FLAT WASHER		
R	1A		N19-2009-05	FLAT WASHER		
S	2A		N29-0208-04	RETAINING RING (3)		
T	1B		N29-0205-04	RETAINING RING (1.5)		
U	3A		N29-0501-05	RETAINING RING		
V	1A		N39-2030-46	PAN HEAD MACHINE SCREW		
W	1A		N19-1096-04	FLAT WASHER		
HD1	1A		T31-0202-05	PLAYBACK HEAD		
M1	2A		T42-0702-05	DC MOTOR (MAIN MOTOR)		
M2	2B		T42-0704-05	DC MOTOR (SUB MOTOR)		

E: Scandinavia & Europe K: USA P: Canada
U: PX(Far East, Hawaii) T: England M: Other Areas
UE : AAFES(Europe) X: Australia

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SPECIFICATIONS

Specifications subject to change without notice.

FM Tuner Section

Frequency Range	87.5MHz – 108.0MHz
Usable Sensitivity (DIN)	1.1 μV/75ohms
Stereo Sensitivity (S/N = 46dB)	1.6 μV/75ohms
Frequency Response (±4.5dB)	30Hz – 15kHz
Signal to Noise Ratio (IEC – A)	68dB
Selectivity (DIN)	70dB
Stereo Separation (1kHz)	35dB
19kHz Carrier Leakage	65dB

MW Tuner Section

Frequency Range	531kHz – 1611kHz
Usable Sensitivity	30 μV

LW Tuner Section

Frequency Range	153kHz – 281kHz
Usable Sensitivity	60 μV

Cassette Desk Section

Tape Speed	4.76cm/sec.
Wow & Flutter	0.09% (WRMS)
Fast Winding Time (C – 60)	100sec.
Frequency Response (120 μs)	30Hz – 18kHz (+4dB, –6dB)
(70 μs)	30Hz – 20kHz (+4dB, –6dB)
Stereo Separation (1kHz)	40dB
Signal to Noise Ratio (IEC – A)	
(Dolby NR OFF)	55dB
(Dolby – B NR ON)	65dB
(Dolby – C NR ON)	72dB

Audio Section

Maximum Output Power	25W + 25W or 15W × 4
Output Power (10%THD, 1kHz, 4ohms)	20W + 20W
(1%THD, 1kHz, 4ohms)	15W + 15W
Tone Action	Bass : 100Hz ± 10dB Treble : 10kHz ± 10dB
Preout level/Impedance	1400mV (max.)/100 ohms

General

Operating Voltage	14.4V (11 – 16V allowable)
Current Consumption	6A at Rated Power
Dimensions (W × H × D)	188 × 58 × 177 mm
Installation size (W × H × D)	182 × 52 × 159 mm
Weight	2.1 kg

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